

World Class Leaders in Fire Detection Since 1918



Product Range Guide



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AN INTRODUCTION TO HOCHIKI EUROPE

International Market Leader

Hochiki has a distinguished heritage of specialist technological expertise which has gained the group its international status as one of the world's leading manufacturers of commercial and industrial fire detection solutions. Established early in the twentieth century, Hochiki has remained an independent, multi-national company which now employs over 1500 personnel in total, operating five manufacturing plants, thirty-one sales offices and eighteen subsidiaries.

Hochiki Europe (UK) Ltd manufactures and distributes product for Europe, the Middle East, CIS, Indian Sub-Continent and Africa and is dedicated to providing sales and technical services to these markets.

World Proven Performance

With a heritage of innovative design and leading edge technologies, Hochiki's products have gained widespread acceptance as the benchmark for high-integrity and long-term reliability throughout the world.

Research and Development for Life Safety

Hochiki owns the world's largest, purpose-built, state of the art fire test laboratory. This ensures that the pedigree of Hochiki products remains unrivalled and guarantees that even large scale designs are fully proven in real fire conditions.

In addition, the Group employs over 100 specialist research and development engineers that undertake activities from fundamental research into the physical properties of fire, to hardware and software product design and development.

Delivery Quality

Acknowledged globally by system specifiers and integrators as an international market leader in the manufacture of fire products, the main benefits of using Hochiki products are:

- High quality of products ensure long term reliability
- Open Protocol for choice and flexibility
- Virtual elimination of false alarms

- Easy to install
- Reduced cost of ownership
- Compliance to standards

Types of Fire Detection System

Hochiki offers two types of fire detection system; the ESP intelligent analogue addressable fire alarm system and the CDX conventional system, as well as a range of ancillary and test equipment.

Product Colour Key

Some products are available in a range of colours, and where appropriate, a colour swatch is shown next to these products denoting which colours are available. For example denotes product available in ivory.



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ESPintelligent

ANALOGUE ADDRESSABLE FIRE DETECTION

Hochiki's comprehensive ESP Intelligent (Analogue Addressable) range is suitable for even the most demanding applications and incorporates high performance sensors, a wide selection of input and output modules and ancillaries. All products use Hochiki's high integrity communications link 'ESP' (Enhanced Systems Protocol) that's at the heart of the ESP range.



ALG-EN

A Photoelectric Smoke Sensor

incorporating Hochiki's unique High Performance Chamber which allows the sensor threshold level to be increased, thereby improving the signal to noise ratio and reducing susceptibility to false alarms.

ACA-E

A Multi-Sensor incorporating a thermal element and a High Performance photoelectric smoke chamber. Has three modes controlled from the Control Panel, allowing either the optical or thermal element or both to be active in making the fire decision.

ACB-E

A Multi-Heat Sensor incorporating a variable Fixed Temperature heat element and a Rate Of Rise heat element, both controlled from the Control Panel allowing either thermal element or both elements simultaneously to be active in making the fire decision.



ACB-EW

An IP67 Rated Waterproof Multi-

Heat Sensor which can be used externally and is supplied with its own fixing base which is used to fix the sensor. Flying leads from the sensor connect directly to the loop via waterproof connectors.

- Removable, High Performance chamber
- Twin fire LEDs allow 360° viewing
- Locking mechanism (sensor to base)
- Variable sensitivity
- Electronically addressed
- Pulsing/non-pulsing controlled from panel*
- Approved by LPCB & VdS
- User selectable modes
- Incorporates Optical & Heat elements
- Removable, High Performance Chamber
- ► Twin fire LEDs allow 360° viewing
- Pulsing/non-pulsing controlled from panel*
- Variable sensitivity
- Electronically addressed
- Approved by LPCB & VdS
- User selectable modes
- Incorporates Fixed Temperature and Rate Of Rise Heat elements
- Twin fire LEDs allow 360° viewing
- Pulsing/non-pulsing controlled from panel*
- Electronically addressed
- LPCB & VdS approved to Classes A, B & C
- User selectable modes
- Incorporates Fixed Temperature and Rate Of Rise Heat elements
- Twin fire LEDs allow 360° viewing
- Pulsing/non-pulsing controlled from panel*
- Electronically addressed
- IP67 rated
- Supplied with fixing base
- LPCB & VdS approved to Classes A, B & C













esp FIREbeam

An Analogue Addressable Reflective Beam Smoke Detector

designed to protect large open spaces features separate detector and controller. The detector unit incorporates a motorised head that can align itself during commissioning. Additional reflector kits enhance detection ranze.

TCH-B100

A Hand Held Address Programmer

designed to address the ESP range of Sensors and other addressable devices such as the YBO-BS Base Sounder. Designed to be light, robust and easy to use it operates from a single PP3 size battery which can provide up to 8000 operations.

(shown with sensor fitted - not supplied)

YBN-R/3

A Common Mounting Base which is fully compatible with Hochiki's ESP range of sensors. Supplied with square cable clamps for secure and reliable cable termination and is also capable of driving a remote LED if required.

(Red version - YBO-R/3(RED) for use with CHQ-WS2 Wall Sounder & CHQ-WSB Wall Sounder Beacon)

YBO-R/SCI

A Loop Isolator Base which is fully compatible with Hochiki's ESP Range of Sensors, Beacons, Sounders and Indicators. The unit incorporates an amber LED to show when it is isolating a section of the loop.

(Red version - YBO-R/SCI(RED) for use with CHQ-WS2 Wall Sounder & CHQ-WSB Wall Sounder Beacon)

CHQ-WS2 An Addressable Loop-Powered

Wall Sounder providing 8 volume levels and 51 tones with a maximum output of up to 102 dB(A) (±2 dB(A)) with low current consumption. Special bases available: YBO-R/3(RED), YBO-R/SCI(RED), YBO-R/3(WHT) and YBO-R/SCI(WHT-SNDR).

- Continually corrects itself against building movement
- Controlled and adjusted from ground level utilising included controller
- 5 40 m standard detection range
- Extensions kits available to enhance detection range up to 100 m
- Fully compatible with the Hochiki ESP analogue addressable protocol
- Approved by VdS
- Lightweight design
- Quick and reliable addressing
- Up to 8000 address settings from one battery
- Displays sensor analogue value

- Electronics free
- Stainless steel contacts
- Takes 2.5 mm² cables
- Slim profile only 8 mm
- Rugged wiring contacts
- Facility for remote indicator
- Quick Connection via square cable clamps
- Available in RED for use with CHQ-WS2 Wall Sounder & CHQ-WSB Wall Sounder Beacon
- Detects short circuits on loop
- Status LED
- Connection of up to 127 per loop
- Supports ESP devices
- Quick connection via square cable clamps
- Available as a DIN Rail Module
- Available in RED for use with CHQ-WS2 Wall Sounder & CHQ-WSB Wall Sounder Beacon
- Approved by LPCB & VdS
- Loop Powered
- Single Loop Address addressed via the TCH-B100 Hand Held Programmer
- Variable Sound Output 90 ~ 102 dB(A) (±2 dB(A)) output at 1 metre
- Weatherproof Kit available (see below)
 - 51 User-Selectable Tones (all tones EN54-3 compatible)
 - Auto-shutdown Mode available*
 - Approved by LPCB and VdS





CHQ-WSB

An Addressable Loop-Powered

Wall Sounder Beacon as per the

CHQ-WS2 but additionally featuring an integral beacon within the horn which utilises high intensity LED technology. Special bases available: YBO-R/3(RED), YBO-R/SCI(RED), YBO-R/3(WHT) and YBO-R/SCI(WHT-SNDR).

WS2-WPK

A Weatherproof Back Box and

gasket set for the CHQ-WS2 Wall Sounder and CHQ-WSB Wall Sounder Beacon, increases the IP Rating of the Sounder to IP65 for external use. As per CHQ-WS2 plus:

- Variable flash frequency*
- High Intensity LED technology
- Independent control of Sounder and Beacon*
- Auto-shutdown Mode available can be set independently for sounder or beacon*
- Designed for CHQ-WS2 and CHQ-WSB
- Increases sounder IP Rating from IP21 to IP65 (external use)
- Easy to install







YBO-BS

An Addressable Loop-Powered

Base Sounder providing 13 volume levels and 51 tones with a maximum output of up to 98 dB(A) (±2 dB(A)) with low current consumption. The unit is designed to fit either the YBN-R/3 or the YBO-R/SCI* Bases.

(*From batch number 6044)

YBO-BSB

An Addressable Loop-Powered Base Sounder Beacon, providing

13 volume levels and 51 tones with a maximum output of up to 98 dB(A) (±2 dB(A)) with low current consumption. The unit is designed to fit either the YBN-R/3 or the YBO-R/SCI* Bases.

(*From batch number 6044)

CHQ-AB An Addressable Loop-Powered

Beacon, with high-intensity LEDs and a Fresnel lens design which produces a highly visible flash. The casing exactly matches the Hochiki ESP Sensor range in shape and colour providing seamless integration.

- Loop Powered
- Single Loop Address addressed automatically by Control Panel or via the TCH-B100 Hand Held Programmer
- 50 ~ 98 dB(A) (±2 dB(A)) output at 1m
- Fits Hochiki Standard or Isolator Base and supports ESP Sensors, Beacons and Remote Indicator
- 51 User-Selectable Tones (all tones EN54-3 compatible)
- Approved by LPCB & VdS
- Loop Powered
- Single Loop Address, addressed by either Control Panel or TCH-B100
- 50 ~ 98 dB(A) (±2 dB(A)) output at 1 m
- Fits Hochiki Standard or Isolator Base and supports ESP Sensors, Beacons and Remote Indicator
- 51 User-Selectable Tones (all tones EN54-3 compatible)
- Beacon and Sounder can be controlled independently*
- Approved by LPCB & VdS
- ► High Intensity LED technology
- 1 Hz flash frequency
- Addressable via TCH-B100
- Up to 127 devices per loop
- Choice of 3 lens colours (red, amber and blue)
- Approved by VdS (red and amber lens)

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CHQ-ARI

An Addressable Loop-Powered Remote Indicator, with high-

intensity LEDs and a Fresnel lens design which produces a highly visible signal. The casing exactly matches the Hochiki ESP Sensor range in shape and colour providing seamless integration.

- High Intensity LED technology
- Addressable via TCH-B100
- Up to 127 devices per loop
- Approved by VdS





CHQ-POM

A Powered Output Module

designed to supply a nominal 24 Vdc at various, user-selectable current levels from 2 to 32 mA (in increments of 2 mA). The unit is small enough to be added to other third-party devices thereby allowing a range of equipment to be added to the ESP loop. The unit also features two monitored inputs.

CHQ-SIM

A Single Input Module designed to allow a single monitored input to be connected to the ESP loop. This provides a compact, low-cost option where the installation of the larger CHQ 'Smart-Fix' Range of Modules might be difficult.

CHQ-DIM(SCI)

A Dual Input Module designed to interface to a variety of inputs such as door contacts, sprinkler flow/door switches and plant equipment. Also available as a DIN Rail mountable version. Both models feature an integral short-circuit isolator.

CHQ-DRC(SCI)

A Dual Relay Controller designed to provide two general-purpose relay outputs, each output can be controlled independently and used to control dampers, plant and equipment shutdown. The monitored input can be used for local power supply fault monitoring or as a general-purpose input. Also available as a DIN Rail mountable version. Both models feature an integral short-circuit isolator.

- Supplies a nominal 24 Vdc at various current levels, 2 mA to 32 mA in increments of 2 mA
- User-selectable current output
- Includes two monitored inputs
- Small design, provides simple connectivity to ESP loop for thirdparty devices, such as IFD-E (see page 18)
- Colour-coded flying leads for simple installation
- Addressed with TCH-B100 Hand Held Programmer
- Approved by LPCB & VdS
- Includes a single monitored input
- Small design for simple provision of a monitored input onto an ESP loop
- Flying leads for easy installation
- Addressed with TCH-B100 Hand Held Programmer
- Approved by LPCB & VdS
- Loop powered
- Single loop address
- Two independent inputs for monitoring of volt-free contacts
- Each input can be configured to monitor either Normally Open or Normally Closed contacts
- DIN rail version available
- Both models feature an integral short-circuit isolator
- Both models approved by LPCB & VdS
- Loop powered
- Single loop address
- Two independently controlled changeover relays
- Relays contact rated at 30 Vdc at 1 A
- Auxiliary monitored input
- DIN rail version available
- Both models feature an integral short-circuit isolator
- Both models approved by LPCB & VdS















Lid Colours CHQ-DSC(SCI)

A Dual Sounder Controller, which has been designed to provide two sounder outputs (that can be driven separately) with full fault monitoring. The monitored input can be used for local power supply fault monitoring or as a general-purpose input. Also available as a DIN Rail mountable version. Both models feature an integral short-circuit isolator.

Lid Colours CHQ-DZM(SCI)

A Dual Zone Module designed to allow up to 60 conventional detectors (30 per zone) or up to 6 SPC-ET or SRA-ETs (3 per zone) to be interfaced to Hochiki's ESP analogue addressable system. The unit also features Schottky and Zener line continuity options. Also available as a DIN Rail mountable version. Both models feature an integral short-circuit isolator.

Colours CHQ-DZM(SCI)-IS

A Dual Zone Module which is fully compatible with Hochiki's ESP analogue addressable protocol and I.S. equipment. The module will allow connection of up to 40 Hochiki I.S. conventional detectors (20 per zone) through a Galvanic isolator or Zener barrier, which are then fully monitored for open and short circuit. Also available as a DIN Rail mountable version. Both models feature an integral shortcircuit isolator.

CHO-MRC(SCI) Colours

Lid

A Mains Relay Controller providing a single mains rated relay output for the control of such devices as dampers, extractors or plant and equipment shutdown. The monitored input can be used for local power supply fault monitoring or as a general-purpose input. Also available as a DIN Rail mountable version. Both models feature an integral short-circuit isolator.

CHO-PCM(SCI)

A Plant Control Module with four independent change-over relay outputs, with N/O and N/C volt free contacts and four inputs. These outputs can be driven separately by the fire alarm control panel and can be used for the control of devices such as dampers or for plant and equipment shutdown. Also available as a DIN Rail mountable version. Both models feature an integral short-circuit isolator.

- Single loop address ь
- Two independent sounder circuits
- Each circuit fully monitored for Open and Short Circuit faults
- Each alarm circuit fused at 1 A
- Auxiliary monitored Input
- ► Outputs are synchronised and can be driven continuously or intermittently
- 24 Vdc auxiliary power required
- DIN rail version available
- Both models feature an integral short-circuit isolator
- Both models approved by LPCB & VdS
- ► Single loop address
- . Supports two independent zones of conventional detectors
- Both zones fully monitored for . Short/Open Circuit
- Requires an auxiliary 24 Vdc supply
- DIN rail version available
- . Both models feature an integral short-circuit isolator
- Both models approved by LPCB
- Single loop address
- Supports two independent zones of Hochiki I.S. Conventional Detectors
- ► Both zones fully monitored for short/open-circuit
- Requires an auxiliary 24 Vdc supply
- DIN rail version available
- Both models feature an integral short-circuit isolator
- Both models approved by LPCB .
- Loop-powered ►
- Single loop address
- Single mains rated relay contact
- Relay contact rated at 250 Vac @ 5 A (resistive) & 48 Vdc @ 2 A (resistive)
- Auxiliary monitored input
- DIN rail version available .
- Both models feature an integral shortcircuit isolator
- Single loop address
- Loop powered .
- 4 change-over relay outputs
- 4 independent inputs for monitoring of volt-free contacts
- ► Each input can be configured to monitor either Normally Open or Normally Closed contacts
- DIN Rail version available ►
- ► Both models feature an integral shortcircuit isolator
- Both models approved by LPCB



Colours CHQ-SZM(SCI)

A Single Zone Monitor designed to allow up to 6 conventional detectors or 1 SPC-ET/SRA-ET beam detectors to be interfaced to Hochiki's ESP analogue addressable system. Also available as a DIN Rail mountable version. Both models feature an integral short-circuit isolator.

- Loop powered
- Up to 6 Conventional Detectors
- Single loop address
- Remote LED output
- Fully monitored for Short and Open Circuit faults
- DIN rail version available
- Both models feature an integral short-circuit isolator
- Both models approved by LPCB & VdS

HCP-E

A Manual Call Point fully compatible with Hochiki's ESP analogue addressable protocol and featuring plug-in wiring terminals for easy installation.

Note - requires SR MOUNTING BOX if surface mounted (sold separately)

HCP-W

An IP67 Weatherproof Manual

Call Point, fully compatible with Hochiki's ESP analogue addressable protocol. Featuring plug-in wiring terminals for easy installation.

- Fast response
- Status LED
- Non-frangible element fitted as standard (conforms to EN54)
- Addressed with TCH-B100 Hand Held Programmer
- Surface or flush mounting
- LPCB Approved to EN54
- Fast response
- Status LED
- Non-frangible element fitted as standard (conforms to EN54)
- Addressed with TCH-B100 Hand Held Programmer
- Surface mounting
- LPCB approved to EN54
- IP67 rated





HCP-E(SCI) A Manual Call Point Isolator fully

compatible with Hochiki's ESP analogue addressable protocol and featuring an integral short-circuit isolator (SCI). Features a bi-coloured LED to indicate either fire (red) or short-circuit (amber). Also features plug-in wiring terminals for easy installation.

Note - requires SR MOUNTING BOX if surface mounted (sold separately)

HCP-W(SCI)

An IP67 Weatherproof Manual

Call Point Isolator fully compatible with Hochiki's ESP analogue addressable protocol and featuring an integral short-circuit isolator (SCI). Features a bi-coloured LED to indicate either fire (red) or short-circuit (amber). Also features plug-in wiring terminals for easy installation.

- Fast response
- Integral short-circuit isolator
- Bi-colour status LED
- Non-frangible element fitted as standard (conforms to EN54)
- Addressed with TCH-B100 Hand Held Programmer
- Surface or flush mounting
- LPCB Approved to EN54
- Fast response
- Integral short-circuit isolator
- Bi-colour status LED
- Non-frangible element fitted as standard (conforms to EN54)
- Addressed with TCH-B100 Hand Held Programmer
- Surface mounting
- LPCB Approved to EN54
- IP67 rated

FREWAVe[®] WIRELESS FIRE DETECTION

Hochiki's FIREwave system raises wireless fire detection and alarm systems to new levels of reliability and flexibility. The system utilises the latest wireless technology to provide rapid, yet economic wireless fire system installations with the minimum of disturbance to the surroundings. Ideal for historic buildings, remote sites and any project where the installation of fire cabling is difficult, overly expensive or prohibited.



RSM-WTM

A Wire to Wireless Translator

Module which allows a wireless fire detection system to be interfaced directly onto the loop. Fully looppowered, the unit can support up to 32 wireless devices* or up to 7 RSM-EXP Expander Modules**.

RSM-EXP

A Wireless Expander Module

which allows extended signal coverage for the wireless system by boosting signal strengths from translators, to cover larger buildings for example. Up to 7 RSM-EXP Expander Modules** can be supported by a single RSM-WTM Wireless Translator Module.

- Loop Powered
- Bi-directional wireless communication
- Self optimising wireless amplitude and frequency
- Automatic wireless channel hopping
- Fully intelligent
- High reliability and sensitivity
- Flexible on site device adjustment
- IP65 protection for exterior mounting
- Makes additions to existing wired systems easy and cost effective
- Bi-directional wireless communication
- Self optimising wireless amplitude and frequency
- Automatic wireless channel hopping
- ▶ Fully intelligent
- High reliability and sensitivity
- Flexible on site device adjustment
- IP65 protection for exterior mounting
- Makes additions to existing wired systems easy and cost effective
- Requires external power supply (24 Vdc)

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 retransmitting the boosted wireless signal.

*Maximum number of 16 output devices such as A/V or output modules. **Maximum of 5 child Expander Modules connected in cascade or a maximum of 3 child Expander Modules connected directly to the Translator Module or another Expander Module













RSM-CIM

A Wireless Conventional Interface

Module which allows a zone of wireless devices to be added to an existing conventional zone (or as a stand-alone zone). The zone is wired directly to the RSM-CIM which is then in turn supported by an RSM-EXP Expander Module.

RSM-IP

A Wireless Single Channel Input

Module which allows the on/off status (alarm/fault) of an external device to be transmitted to a control panel wirelessly via an RSM-CIM, RSM-EXP or RSM-WTM.

RSM-OP

A Wireless Single Channel Output

Module which allows the control panel to activate/switch the circuits of an external device wirelessly via an RSM-EXP or RSM-WTM. The unit's contacts can be configured to be normally open or normally closed and switch at 30 Vdc at 2 A.

RSM-POM A Wireless Powered Output

Module which allows the control panel to activate/switch the circuits of an external device or system wirelessly via an RSM-CIM. RSM-EXP or RSM-WTM. The unit's contacts can be configured to be normally open or normally closed and switch at 30 Vdc/125 Vac at 2 A. The unit can be configured to provide either a 12 Vdc or a 24 Vdc output.

RSM-CP

A Wireless Resettable Manual

Call Point which features a simulated glass front. When activated, a plastic 'flag' is displayed in the window of the unit; the supplied key will reset the flag and unit. Supplied with back box. Weatherproof version also available (RSM-CP/W).

- Ri-directional wireless communication
- Self optimising wireless amplitude and frequency
- Automatic wireless channel hopping
- Fully intelligent
- High reliability and sensitivity
- Flexible on site device adjustment ►
- ► IP65 protection for exterior mounting
- Makes additions to existing wired systems easy and cost effective
- Requires external power supply for use • as stand-alone zone
- Input circuits are monitored for fire and ► fault conditions
- Bi-directional wireless communication
- Self optimising wireless amplitude and . frequency
- Automatic wireless channel hopping
- Fully intelligent
- High reliability and sensitivity
- Flexible on site device adjustment μ.
- Makes additions to existing wired systems easy and cost effective
- Contacts can be configured as N/O or N/C
 - Bi-directional wireless communication
- Self optimising wireless amplitude and frequency
- ► Automatic wireless channel hopping
- Fully intelligent μ.
- High reliability and sensitivity
- ► Flexible on site device adjustment
- Makes additions to existing wired . systems easy and cost effective
- Requires external power supply
- Contacts can be configured as N/O or N/C ►
- . Selectable output - 12 Vdc or 24 Vdc
- Bi-directional wireless communication
- Self optimising wireless amplitude and frequency
- Automatic wireless channel hopping .
- Fully intelligent
- High reliability and sensitivity
- Flexible on site device adjustment
- Makes additions to existing wired systems easy and cost effective
- Requires external power supply
- ► Bi Directional wireless communication
- Fully intelligent
- Utilises standard low cost lithium battery technology
- . Long battery life
- ► **Resettable Element**
- ► Clear 'device activated' warning flag
- High reliability ►
- Automatic channel hopping
- . Self optimising wireless amplitude and frequency
- Weatherproof version available





ROD-E

A Wireless Intelligent Photoelectric Smoke Sensor with a

patented smoke chamber ensuring optimal smoke sensitivity with increased protection from airborne contamination and background illumination. The sensor is fitted with a single omni-directional LED and a reed switch facility allowing testing using a magnet.

RHD-E

A Wireless Intelligent Rate of Rise Heat Sensor with a thermistor

sensing element. The sensor is fitted with a single omni-directional LED and a reed switch facility allowing testing using a magnet.

RMD-E

A Wireless Intelligent Multi

Sensor with a patented smoke chamber and thermistor heat sensing element. The sensor is fitted with a single omni-directional LED and a reed switch facility allowing testing using a magnet.





A Wireless Intelligent Wall

Sounder providing 3 tones with an adjustable volume level up to a maximum output of 100 dB(A). adjustable down in increments of 6 dB(A). Also available in white, RSM-WS(WHT).



RSM-WS/W(RED)

A Wireless Intelligent Weatherproof Wall Sounder

providing 3 tones with an adjustable volume level up to a maximum output of 100 dB(A), adjustable down in increments of 6 dB(A). Also available in white, RSM-WS/W(WHT).

- Patented smoke chamber design
- Bi-directional wireless communication
- ► Adaptive signal processing helps with the elimination of false alarms
- Automatic wireless channel hopping
- Fully intelligent with high reliability and sensitivity
- Flexible on site device adjustment
- Makes additions to existing wired systems easy and cost effective
- Compliant with current EN54 European . standards
- . Thermistor-type heat sensing element
- Bi-directional wireless communication
- Adaptive signal processing helps with the elimination of false alarms
- ► Automatic wireless channel hopping
- ► Fully intelligent with high reliability and sensitivity
- Flexible on site device adjustment
- Makes additions to existing wired systems easy and cost effective
- Compliant with current EN54 European . standards
- Detects smoke and/or heat
- Bi-directional wireless communication Adaptive signal processing helps with
- the elimination of false alarms
- ► Automatic wireless channel hopping
- Fully intelligent with high reliability and ► sensitivity
- Flexible on site device adjustment
- ► Makes additions to existing wired systems easy and cost effective
- Compliant with current EN54 European standards
- 3 Tones, adjustable volume up to 100 dB(A)
- Bi-directional wireless communication
- Automatic wireless channel hopping
- Easy and cost-effective additions to existing wired systems
- Compliant with current EN54 European standards and BS5839
- IP21C
- 3 Tones, adjustable volume up to 100 dB(A)
- Bi-directional wireless communication
- Automatic wireless channel hopping
- ► Easy and cost-effective additions to existing wired systems
- **Compliant with current EN54 European** standards and BS5839
- IP66









RSM-WSB(RED)

A Wireless Intelligent Wall

Sounder Beacon providing 7 tones with an adjustable volume level up to a maximum output of 100 dB(A), adjustable down in increments of 6 dB(A). Also provides a flash rate/light output of 1 Hz/1 Cd and is available in white, RSM-WSB(WHT).

RSM-WSB/W(RED) A Wireless Intelligent

A Wireless Intelligent Weatherproof Wall Sounder

Beacon providing 7 tones with an adjustable volume level up to a maximum output of 100 dB(A), adjustable down in increments of 6 dB(A). Also provides a Flash rate / Light output of 1 Hz/1 Cd and is available in white, RSM-WSB/W(WHT).

RSM-BS A Wireless Intelligent Base

Sounder providing 32 tones as standard with a volume range of between 90.1 to 92.4 dB(A) at 1 metre. The pre-moulded base will accommodate any type of FIREwave wireless detector, or a locking cover plate (*RSM-C*).

RSM-BSB

A Wireless Intelligent Base

Sounder Beacon providing 32 tones as standard with a volume range of between 90.1 to 92.4 dB(A) at 1 metre and a 1 Hz flash rate. The premoulded base will accommodate any type of FIREwave wireless detector, or a locking cover plate (*RSM-C*).

A Wireless Intelligent Beacon

providing 2 selectable flash rates (0.5 Hz or 1.0 Hz). The unit is also available in white, RSM-CLB(WHT).

- 7 Tones, adjustable volume up to 100 dB(A)
- Flash rate/light output of 1 Hz/1 Cd
- Bi-directional wireless communication
- Automatic wireless channel hopping
- Easy and cost-effective additions to existing wired systems
- Compliant with current EN54 European standards and BS5839
- IP21C
- 7 Tones, adjustable volume up to 100 dB(A)
- Flash rate/light output of 1 Hz/1 Cd
- Bi-directional wireless communication
- Automatic wireless channel hopping
- Easy and cost-effective additions to existing wired systems
- Compliant with current EN54 European standards and BS5839
- IP66
- 32 Tones, adjustable volume from 90.1 to 92.4 dB(A)
- Bi-directional wireless communication
- Automatic wireless channel hopping
- Easy and cost-effective additions to existing wired systems
- Compliant with current EN54 European standards
- 32 Tones, adjustable volume from 90.1 to 92.4 dB(A)
- Flash rate of 1 Hz
- Bi-directional wireless communication
- Automatic wireless channel hopping
- Easy and cost-effective additions to existing wired systems
- Compliant with current EN54 European standards and BS5839
- Selectable flash rate (0.5 Hz or 1.0 Hz)
- ▶ Bi-directional wireless communication
- Automatic wireless channel hopping
- Easy and cost-effective additions to existing wired systems
- Compliant with current EN54 European standards and BS5839

MARINE APPROVED ANALOGUE ADDRESSABLE & CONVENTIONAL PRODUCTS

Hochiki's Marine Approved Analogue Addressable range of products has been designed around the existing world-proven ESP range and all products utilise the Hochiki ESP Protocol. Hochiki's Marine Approved Conventional range of products has been designed around the existing world-proven CDX range. All products have been approved for marine use by either Lloyds Register or Germanischer Lloyd and are ideal for use on ships, oilrigs etc.









ALG-ENM

A Marine Approved Analogue Addressable Photoelectric Smoke

Sensor incorporating Hochiki's unique High Performance Chamber which allows the sensor threshold level to be increased, thereby improving the signal to noise ratio and reducing susceptibility to false alarms.

ACB-EM

A Marine Approved Analogue Addressable Multi-Heat Sensor

incorporating a variable Fixed Temperature heat element and a Rate Of Rise heat element, both controlled from the Control Panel allowing either thermal element or both elements simultaneously to be active in making the fire decision.

YBN-R/3M

A Marine Approved Common

Mounting Base which is fully compatible with Hochiki's ESP Range of Marine Approved Sensors. Supplied with square cable clamps for secure and reliable cable termination and is also capable of driving a remote LED if required.

YBO-R/SCIM

A Marine Approved Loop Isolator

Base which is fully compatible with Hochiki's ESP Range of Marine Approved Sensors. The unit incorporates an amber LED to show when it is isolating a section of the loop.

- Removable, High Performance chamber
- Twin fire LEDs allow 360° viewing
- Locking mechanism (sensor to base)
- Variable sensitivity
- Electronically addressed
- Pulsing/non-pulsing controlled from panel*
- Approved to MED by GL
- GL Type approval
- Approved by LPCB
- User selectable modes
- Incorporates Fixed Temperature and Rate Of Rise Heat elements
- ▶ Twin fire LEDs allow 360° viewing
- Pulsing/non-pulsing controlled from panel*
- Electronically Addressed
- Approved to MED by GL
- GL Type approval
- Approved by LPCB to Classes A, B & C
- Electronics free
- Supports ESP Marine Approved Sensors
- Takes 2.5 mm² cables
- Slim profile only 8 mm
- Facility for remote indicator
- Quick Connection via square cable clamps
- Approved to MED by GL
- GL Type approval
- Approved by LPCB
- Detects short circuits on loop
- Status LED
- Connection of up to 127 per loop
- Supports ESP Marine Approved Sensors
- Quick connection via square cable clamps
- Approved to MED by GL
- GL Type approval
- Approved by LPCB













CHQ-DIM/M(SCI)

A Marine Approved Analogue Addressable Dual Input Module

designed to interface to a variety of inputs such as door contacts, sprinkler flow/door switches and plant equipment. Features an integral shortcircuit isolator.

CHO-DRC/M(SCI) A Marine Approved Analogue Addressable Dual Relay Controller

designed to provide two general-purpose relay outputs, each output can be controlled independently and used to control dampers, plant and equipment shutdown. The monitored input can be used for local power supply fault monitoring or as a general-purpose input. Features an integral short-circuit isolator.

^{Lid} colours CHQ-DSC/M(SCI) A Marine Approved Analogue

Addressable Dual Sounder

Controller, which has been designed to provide two sounder outputs (that can be driven separately) with full fault monitoring. The monitored input can be used for local power supply fault monitoring or as a general-purpose input. Features an integral short-circuit isolator.

Lid Colours CHO-SZM/M(SCI) A Marine Approved Analogue

Addressable Single Zone Monitor designed to allow up to 6 marine

approved conventional detectors to be interfaced to Hochiki's ESP analogue addressable system. Features an integral short-circuit isolator.

A Marine Approved Analogue Addressable Manual Call Point

fully compatible with Hochiki's ESP analogue addressable protocol and featuring plug-in wiring terminals for easy installation.

Note - requires SR MOUNTING BOX if surface mounted (sold separately)

- Loop powered
- Single loop address
- Two independent inputs for monitoring of volt-free contacts
- Each input can be configured to monitor either Normally Open or Normally Closed contacts
- Features an integral short-circuit isolator
- Approved to MED by GL
- GL Type approval
- Approved by LPCB
- . Loop powered
- Single loop address
- Two independently controlled changeover relavs
- Relays contact rated at 30 Vdc at 1Δ
- Auxiliary monitored input
- Feature an integral short-circuit isolator
- Approved to MED by GL
- ► GL Type approval
- ► Approved by LPCB
- Single loop address
- Two independent sounder circuits
- Each circuit fully monitored for Open and Short Circuit faults
- ► Each alarm circuit fused at 1 A
- Auxiliary monitored Input
- ► Outputs are synchronised and can be driven continuously or intermittently
- ► 24 Vdc auxiliary power required
- ► Features an integral short-circuit isolator
- ► Approved to MED by GL
- ► GL Type approval ► Approved by LPCB
- ► Loop powered
- ► Up to 6 Conventional Detectors
- ► Single loop address
- Remote LED output
- . Fully monitored for Short and Open **Circuit faults**
- Features an integral short-circuit . isolator
- Approved to MED by GL
- GL Type approval
- Approved by LPCB
- Fast response
- Status LED
- Non-frangible element fitted as standard (conforms to EN54)
- Addressed with TCH-B100 Hand Held Programmer
- Surface or flush mounting
- Weatherproof IP67 version available (HCP-WM)
- ► Approved to MED by GL
- GL Type approval
- Approved by LPCB

HCP-EM



SLR-E3NM

A Marine Approved Conventional Photoelectric Smoke Detector,

which is fully compatible with the majority of existing Marine Conventional systems and incorporates a remote indicator output.

DCD-AE3M

A Marine Approved Conventional Rate of Rise Heat Detector

incorporating a 60°C fixed temperature element. The thermistor and linearising circuit provide an accurate linear response Heat Detector. A third terminal provides integral remote indicator output.

DCD-CE3M

A Marine Approved Conventional Rate of Rise Heat Detector

incorporating a 90°C fixed temperature element. The thermistor and linearising circuit provide an accurate linear response Heat Detector. A third terminal provides integral remote indicator output.

- Electronic linear heat detection
- Remote indicator output
- Wide voltage range (9.5 ~ 30 Vdc)
- Twin fire LEDs allow 360° viewing
- Approved by LPCB
- Approved to MED by GL
- GL Type approval





YBN-R/6M

A Marine Approved Conventional Detector Mounting Base for the

CDX Marine Approved Range of Detectors and fully compatible with the majority of existing conventional fire alarm control panels.

MBB-1

A Marine Back Box providing a

splash proof and secure fixing for the Hochiki ESP and CDX Marine Approved Range of Sensors and Detectors and their associated Bases. Provides an aesthetically pleasing solution where surface fixed devices are required. The housing supports four 20mm glanded entries for cabling access.

- Integral remote indicator output
- Low profile, only 8 mm
- Rugged design
- Electronics free
- Quick connections via square cable clamps
- Accepts 2.5 mm² cables
- Bayonet slot, low insertion force for detectors
- Approved to MED by GL
- GL Type approval
- 4 Glanded cable entry holes (glands not supplied)
- Colour matched
- Approved Sensor and Base range
- Provides moisture and dust resistant fixing
- Ideal for bulk-head fixing
- Approved to MED by GL
- GL Type approval
- Non-marine use version available (SBB-1)

- Removable, High Performance chamber
- Remote indicator output
- Wide voltage range (9.5 ~ 30 Vdc)
- Low profile design with one piece outer cover
- Twin fire LEDs allow 360° viewing

Wide voltage range (9.5 ~ 30 Vdc) Twin fire LEDs allow 360° viewing

One master base

•

►

- Approved by LPCB
- Approved to MED by GL



Approved by LPCB

GL Type approval

Approved to MED by GL

CDXconventional

CONVENTIONAL FIRE DETECTION

Hochiki's CDX range offers one of the most extensive product portfolios available, providing solutions for most conventional fire detection applications as well as security systems, due to its wide operating voltage range (9.5~30 Vdc).



SLR-E3N

A Conventional Photoelectric

Smoke Detector, which is fully compatible with the majority of existing Conventional systems. A third terminal provides an integral remote indicator output.

- Removable, High Performance chamber
- Remote Indicator output
- Wide voltage range (9.5 ~ 30 Vdc)
- Low profile design with one piece outer cover
- Twin fire LEDs allow 360° viewing
- Range of mounting bases
- Approved by LPCB & VdS



DCD-AE3

A Conventional Rate of Rise Heat

Detector incorporating a 60°C fixed temperature element. The thermistor and linearising circuit provide an accurate linear response Heat Detector. A third terminal provides integral remote indicator output.

- Electronic linear heat detection
- Remote Indicator output
- Wide voltage range (9.5 ~ 30 Vdc)
- Twin fire LEDs allow 360° viewing
- Range of mounting bases
- Approved by LPCB & VdS





A Conventional Rate of Rise Heat Detector incorporating a 90°C fixed temperature element. The thermistor

and linearising circuit provide an accurate linear response Heat Detector. A third terminal provides integral remote indicator output.

- Electronic linear heat detection
- Remote Indicator output
- Wide voltage range (9.5 ~ 30 Vdc)
- Twin fire LEDs allow 360° viewing
- Full range of mounting bases
- Approved by LPCB & VdS



DFJ-AE3 A Conventional 60°C Fixed

Temperature Heat Detector using a

thermistor and linearising circuit to provide an accurate linear response Heat Detector. A third terminal provides integral remote indicator output.

- Electronic linear heat detection
- Remote Indicator output
- Wide voltage range (9.5 ~ 30 Vdc)
 - Twin fire LEDs allow 360° viewing
 - Fixed Temperature Detector
- Full range of mounting bases
- Approved by LPCB & VdS



DFJ-CE3

A Conventional 90°C Fixed Temperature Heat Detector using a

thermistor and linearising circuit to provide an accurate linear response. A third terminal provides integral remote indicator output.

- Electronic linear heat detection
- Remote Indicator output
- Wide voltage range can be installed on security systems
- Twin fire LEDs allow 360° viewing
- Fixed Temperature Detector
- Full range of mounting bases
- Approved by LPCB & VdS



DFG-60E

An IP67 Waterproof Conventional 60°C Fixed Temperature Heat

Detector with minimal standby current and high reliability. Particularly suited to environments, which are exposed to high levels of condensation or are hosed down.

DRD-E

A Conventional Flame Detector

designed for internal use to detect large flames. The detector fits any of the CDX range of mounting bases. The detection zone is a 90° cone and the detection range is up to and including 25m.

IFD-E

A Conventional IR³ Infra-Red

Flame Detector designed to respond to low-frequency (1 to 15 Hz) flickering IR radiation emitted from flames during combustion, the unit can discriminate between flames and spurious sources of radiation such as sunlight. An I.S. version and an explosion-proof version are also available (page 24).

16091

A Hand Held Flame Detector

Tester providing a flame-free method of UV testing the industrial IR³ series of flame detectors: IFD-E, IFD-E(IS) and the IFD-E(Exd).

THIS EQUIPMENT IS ALSO AVAILABLE FOR **HIRE**. Please contact your Sales Representative for further information.

- Class 1 performance as defined in BS EN54-10:2002 (range up to 25 m)
- Single IR technology
- Robust and slim design
- Low current consumption
- Easy to install
- Fits any of the CDX Range of mounting bases
- Twin LEDs for 360° view
- Approved by LPCB & VdS
- Class 1 sensitivity to EN54-10 detects
 0.1 m² fire @ 25 m
- Excellent optical interference immunity (solar blind)
- Selectable output options conventional 2-wire, 4-20 mA, latching or non-latching relay contacts, fire/ fault, pre-alarm
- Selectable response speed
- Optical self-test
- Low power consumption
- Approved by LPCB
- Flame-free UV testing, ideal for hazardous areas
- Simple to use hand held unit with rechargeable NiCd battery pack and charger
- Tests many Flame Sensors Types UV, UV/IR, UV/IR², IR³, IR², IR
- Range typically 3 metres and beyond
- Selectable optical output intensity with LED bar graph indication









- Waterproof design rated to IP67
 - Low profile shape
 - Utilises a bi-metallic strip to sense temperature change
 - No Mounting base required
 - Minimal standby current
 - Approved by LPCB & VdS





SPC-ET

A Conventional Beam Smoke

Detector that consists of an emitter and receiver that cover a distance of 5 - 100 m providing a maximum coverage of 1500 m². Features an automatic signal strength adjustment facility and is also available with a latching or a non-latching relay.

SRA-ET

A Conventional Reflective Beam

Smoke Detector consisting of an emitter/receiver unit and reflector plate that works over a distance of 5 -30 m, providing a maximum coverage of 450 m².

YBN-R/6

A Conventional Detector

Mounting Base associated with the CDX Range of Detectors and Beacons and is fully compatible with the majority of existing conventional fire alarm control panels.

- ▶ 5 100 m range
- Automatic compensation
- Automatic signal strength adjustment
- Emitter unit can be powered direct from zone (or loop)
- Features a Latching or Non-Latching Fault Relay
- Can be interfaced onto ESP system via CHQ-DZM(SCI) (page 8) or CHQ-SZM(SCI) (page 9)
- Approved by LPCB & VdS
- 5 30 m range
- Small flat reflector
- Powered directly from the zone
- Full line continuity options
- Automatic compensation
- Can be interfaced onto ESP system via CHQ-DZM(SCI) (page 8) or CHQ-SZM(SCI) (page 9)
- Approved by LPCB & VdS
- Integral remote indicator output
- Low Profile, only 8 mm
- Rugged design and electronics free
- Quick connections via square cable clamps
- Accepts up to 2.5 mm² cables
- Bayonet slot, low insertion force for detectors



YBO-R/6PA

A Conventional Detector

Mounting Base for 2-Wire systems where detectors and sounders are on same zone cables*.

- Integral remote indicator output
- Rugged design
- Dedicated cable screen terminal
- Quick connection via square cable clamps
- Accepts up to 2.5 mm² cables
- Bayonet slot, low insertion force for detectors
- Approved by LPCB



YBO-R/6R

A Conventional Latching Relay Detector Mounting Base associated

with the CDX Range of Detectors and is fully compatible with the majority of existing conventional fire alarm and security control panels.

- Integral remote indicator output
- Wide voltage range can be used in security systems
- Rugged design
- Quick connections via square cable clamps
- Accepts up to 2.5 mm² cables
- Bayonet slot, low insertion force for detectors
- Approved by LPCB





YBO-R/6RN

A Conventional Non-Latching **Relay Detector Mounting Base**

associated with the CDX Range of Detectors and is fully compatible with the majority of existing conventional fire alarm and security control panels.

YBO-R/6RS

A Conventional Latching Schottky **Diode Relay Detector Mounting**

Base associated with the CDX Range of Detectors and is fully compatible with the majority of existing conventional fire alarm control panels.

YBN-R/6SK

A Conventional Detector

Mounting Base with in-line Schottky Diode, associated with the CDX Range of Detectors and is fully compatible with the majority of existing conventional fire alarm control panels.

A Conventional Base Sounder

which has been designed to

complement the CDX range of

- Integral remote indicator output
- Wide voltage range can be used in security systems
- Rugged design
- Quick connections via square cable clamps
- Accepts up to 2.5 mm² cables
- Bavonet slot, low insertion force for detectors
- Approved by LPCB
- Integral remote indicator output
- In-line Schottky Diode for Line Continuity
- Rugged design
- ► Quick connections via square cable clamps
- Accepts up to 2.5 mm² cables
- Bayonet slot, low insertion force for detectors
- Approved by LPCB
- Integral remote indicator output
- In-line Schottky Diode for line continuity
- Low profile, only 8 mm
- Rugged design
- Quick connections via square cable ► clamps
- Accepts 2.5 mm² cables
- . Bayonet slot, low insertion force for detectors
- Robust design
 - Low current consumption
- Easy to install
- Maximum 93 dB(A) @ 1 m (Tone 1)
- 32 user-selectable tones and 3 userselectable volumes
- Lockable cap available (CS/CAP)



Robust design

- Low current consumption
- Easy to install
- Maximum 93 dB(A) @ 1 m (Tone 1)
- 32 user-selectable tones and 3 user-► selectable volumes
- Utilises high intensity LEDs
- Lockable cap available (CS/CAP) ►

CSBB-E A Conventional Base Sounder Beacon which has been designed to

complement the CDX range of detectors. Improved electronic design enables very low current consumption whilst providing a range of tones and volumes selectable from each unit. Features integral beacon.

detectors. Improved electronic design enables very low current consumption whilst providing a range of tones and volumes selectable from each unit.

CSB-F





CWSB-E

A Conventional Wall Sounder

Beacon with improved electronic design enables very low current consumption whilst providing a range of tones and volumes selectable from each unit. Features integral beacon.

- Robust design
- Low current consumption
- Easy to install
- Maximum 113 dB(A) @ 1 m (Tone 15)
- 32 user-selectable tones
- Utilises high intensity LEDs



BE-SSB(RED)

An Electronic Conventional

Sounder which can be installed internally.

- Robust design
- Low current consumption
- Easy to install
- Maximum 110 dB(A) at 1 m (dependent on tone selected)
- 32 user-selectable tones
- White version available



BE-SDB(RED)

An Electronic Conventional

Sounder comes with a deeper IP66 back box, which enables the unit to be installed externally.

- Robust design
- Low current consumption
- Easy to install
- Deep base provides IP66 protection
- Maximum 110 dB(A) at 1 m (dependent on tone selected)
- 32 user-selectable tones
- White version available



BEL-SBSB(RED)

An Electronic Conventional Sounder Beacon which can be installed internally.

- Robust design
- Low current consumption
- Easy to install
- Xenon beacon technology
- Maximum 110 dB(A) at 1 m (dependent on tone selected)
- 32 user-selectable tones
- White version available



BEL-SBDB(RED)

An Electronic Conventional

Sounder Beacon comes with a deeper IP66 back box, which enables the unit to be installed externally.

- Robust design
- Low current consumption
- Easy to install
- Xenon beacon technology
- Deep base provides IP66 protection
- Maximum 110 dB(A) at 1 m (dependent on tone selected)
- 32 user-selectable tones
- White version available



FIRF

CLB-E

A Conventional Beacon for use on 24 V Sounder Circuits. The unit is fitted with a Fresnel lens and highintensity LEDs, a design which produces a highly visible flash. The casing exactly matches the CDX Detector range in shape and colour providing seamless integration.

MBF-6EV

A Conventional Alarm Bell, six

inches diameter and for internal use, based upon the industry standard KOBELL range.

- High Intensity LED technology
- Colour-matched to existing detector and base ranges
- Fits standard CDX base (YBN-R/6)

- Low profile
- Low current consumption
- Fully suppressed and polarised
- 95 dB(A) at 1 m (typ)
- Simple installation with multi-fixing base plate
- Approved by LPCB

FB/024/R/W

A Conventional Alarm Bell, six

inches diameter, which has the same operation as the MBF-6EV except it comes equipped with a weatherproof back box enabling it to be used externally.

- Low profile
- Low current consumption
- Fully suppressed and polarised
- 100 dB(A) at 1 m (typ)
- Weatherproof for external installation
 Simple installation with multi-fixing
- base plateApproved by LPCB





CCP-E

A Conventional Manual Call Point

based upon the industry standard KAC world series housing. The unit can support either a 'Frangible Glass' element or a 'Non Frangible Plastic' element.

Supplied complete with SR-BACKBOX for surface mounting.

CCP-W

An IP67 Conventional

Weatherproof Call Point which can be used externally.

- Approved to EN54-11:2001
- Terminals can accommodate up to a 2.5 mm² solid conductor
- Other colours available on request
- Approved by LPCB

- Approved to EN54-11:2001
- Supplied with back-box as standard
- Terminals can accommodate up to a 2.5 mm² solid conductor
- Other colours available on request
- Ingress Protection rated to IP67
- Approved by LPCB

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CDX **INTRINSICALLY SAFE & EXPLOSION PROOF CONVENTIONAL PRODUCTS**

Hochiki's Intrinsically Safe and Explosion-Proof Conventional range of products has been designed around the existing world-proven CDX range. The detectors have been approved for hazardous area use by both LPCB and Germanischer Lloyd.



SLR-E-IS

A Conventional I.S. Photoelectric Smoke Detector designed for use in hazardous areas. Incorporates a remote indicator output and a removable chamber for easy maintenance.

DCD-1E-IS

A Conventional I.S. Rate of Rise Heat Detector designed for use in hazardous areas. Incorporates a remote indicator output and a 60°C

fixed temperature element.

- Removable, High Performance ► chamber
- Twin fire LEDs allow 360° viewing
- Supported by a range of barriers •
- Remote indicator output
- . ATEX certification to: II 1G EEx ia IIC T5 (Tamb=55°C)
- Suitable for installation in areas at Category 1 (inc all lower categories)
- Approved by LPCB and GL
- Twin fire LEDs allow 360° viewing
- Electronics free mounting base
- Remote indicator output ►
- ATEX certification to: II 1G EEx ia IIC T5 (Tamb=55°C)
- Suitable for installation in areas at Category 1 (inc all lower categories)
- Approved by LPCB and GL



YBN-R/4(IS)

A Conventional Detector

Mounting Base associated with the CDX Range of Intrinsically Safe Detectors and is fully compatible with the majority of existing conventional fire alarm control panels.

- Low Profile, only 8 mm
- Rugged design
- Dedicated cable screen terminal
- Accepts from 1 to 2.5 mm² cables
- Quick connection via square cable • clamps
- **Electronics** free

A Conventional Manual Call Point

designed for use in hazardous areas and based upon the industry standard KAC world series housing.

- Supports either a 'Frangible Glass' ► element or a 'Non Frangible Plastic' element
- Terminals can accommodate up to a 2.5 mm² solid conductor
- Approved to EN54 Part 12
- Rugged design
- ► ATEX Classification to II 1G EEx ia IIC T4

CCP-E-IS







MTL7787+

A Zener-Diode Barrier which is intrinsically safe and zone-powered, for use in conventional fire detection systems for protection within hazardous areas. Certified 'ia' for all zones and 'IIC' for all explosive atmospheres.

- Simple installation onto standard DIN 'top-hat' railing
- Removable colour-coded terminals for easy connection
- Can accommodate conductors up to 2.5 mm²
- Supports one zone of I.S. products

MTL7728+

A Zener-Diode Barrier which is intrinsically safe and zone-powered, for use in conventional fire detection systems for protection within hazardous areas. Certified 'ia' for all zones and 'IIC' for all explosive atmospheres. Can be used with the IFD-E(IS) Flame Detector.

MTL5561

A Galvanic Isolator for use in conventional fire detection systems for protection within hazardous areas. The unit has reverse input polarity protection. Certified for use in Zone 0, IIC, T4-6 hazardous areas.

- Simple installation onto standard DIN 'top-hat' railing
- Simplified installation and maintenance using plug-in connectors
- Input circuit protected against reverse polarity
- Supports 2 zones of I.S. Detectors
- Simple installation onto standard DIN railing
- Simplified installation and maintenance using plug-in connectors
- Input circuit protected against reverse polarity
- Supports two zones of I.S. Detectors





IFD-E(IS)

An Intrinsically Safe Conventional Infra-Red Flame

Detector designed to respond to lowfrequency (1 to 15 Hz) flickering IR radiation emitted from flames during combustion, the unit can discriminate between flames and spurious sources of radiation such as sunlight.

IFD-E(Exd)

A Conventional Explosion-Proof Infra-Red Flame Detector designed

to respond to low-frequency (1 to 15 Hz) flickering IR radiation emitted from flames during combustion, the unit can discriminate between flames and spurious sources of radiation such as sunlight.

- Unaffected by convection currents, draughts or wind and solar-blind
- Tolerant of fumes, vapours, dust and mist
- ATEX certification to: EEx ia IIC T4 (135°C) (zones 0, 1 and 2)
- Responsive to a flame more than 25 m away
- Selectable response speed
- Class 1 performance as defined in BS EN54-10:2002 (on the high sensitivity setting)
- Optical self-test
- Unaffected by convection currents, draughts or wind and solar-blind
- ▶ Tolerant of fumes, vapours, dust and mist
- ATEX certificated to: EEx d IIC T6 (85°C) (zones 1, 21, 2 and 22)
- Responsive to a flame more than 25 m away
- Selectable response speed
- Class 1 performance as defined in BS EN54-10:2002 (on the high sensitivity setting)
- Optical self-test



FREINK[®] AIR SAMPLING SYSTEM

Hochiki's FIRElink range of high sensitivity air sampling equipment consists of detectors and sampling pipe accessories to the very highest levels of sensitivity in environments such as computer areas and clean rooms. In these applications it is able to give warning to the very slightest trace of smoke. All detectors in the FIRElink range have been approved to EN54-20:2006 Classes A. B & C by LPCB.









FIRElink-25

A Single Pipe Air Sampling

Detector designed to provide very high sensitivity smoke detection. The unit will automatically setup for easy installation and is also designed to fit into a Docking Station which accepts all sampling pipes and cables leaving the detector to be fitted during the final commissioning phase.

FIRElink-100

A Two Pipe Air Sampling Detector

designed to provide very high sensitivity smoke detection. The unit will automatically setup for easy installation and is also designed to fit into a Docking Station which accepts all sampling pipes and cables leaving the detector to be fitted during the final commissioning phase.

FIRElink-400

A Four Pipe Air Sampling Detector

designed to provide very high sensitivity smoke detection with inherent immunity to dust/dirt build-up. Discriminates between 'dirty' and 'clean' operating periods such as day and night, automatically substituting appropriate system sensitivity without the need for external input or adjustment.

FIRELink-400CM A Four Pipe Air Sampling Detector with integral Command Module

designed to provide very high sensitivity smoke detection with inherent immunity to dust/dirt build-up. Added "Command Module" allows the user to control, program and test other FIRElink units on the same "network".

- Ultra small, low cost aspirating smoke detector
- High sensitivity provided by laser based forward light scatter for reliable early warning
- Single sampling pipe up to 50 m in length (still air)
- False alarms reduced by unique dust discrimination
- RS485 communications for networking and remote communications
- Ultra small, low cost aspirating smoke detector
- High sensitivity provided by laser based forward light scatter for reliable early warning
- Two sampling pipes up to 100 m (aggregate) in length (still air)
- False alarms reduced by unique dust discrimination
- RS485 communications for networking and remote communications
- High sensitivity provided by laser based forward light scatter for reliable early warning
- Four sampling pipes up to 200 m (aggregate) in length (still air)
- False alarms reduced by unique dust discrimination
- RS485 communications for networking and remote communications
- High sensitivity provided by laser based forward light scatter for reliable early warning
- Four sampling pipes up to 200 m (aggregate) in length (still air)
- False alarms reduced by unique dust discrimination
- RS485 communications for networking and remote communications
- Command Module allows control over other FIRElink units on network









FIRElink-CM

A Stand Alone Command Module

which provides a single location display, control and interfacing option for systems of up to 127 other FIRElink detectors. Also allows global programming of all detector functions simultaneously.

FIRElink-NANO

A Single Pipe Air Sampling

Detector designed to provide very high sensitivity smoke detection. The unit will automatically setup for easy installation.

FL-RC

An Input Relay Card designed to provide detector inputs that may be programmed for Remote Day/Night Mode Changeover, Remote Reset or ClassiFire Override as well as power supply fault monitoring.

- Network control of 127 detectors
- RS485 communications
- Built in short circuit isolators for optimum reliability
- Integral Serial Interface programmable for TAP text messages/paging or BACnet BMS communications
- RS232 serial interface for SenseNET
 PC Graphical Management System
- Ultra small, low cost aspirating smoke detector for easy and discreet installation
- High sensitivity provided by laser based forward light scatter for reliable early warning
- Single sampling pipe up to 50 m in length (still air)
- Easy commissioning without the need for a PC
- 4 staged normally open relay outputs for unmonitored connection to other systems
- Relay contacts rated at 0.4 A @24 Vdc
- Only compatible with FIRElink-25 and FIRElink-100
- Common Fault relay energised normally closed for fail safe operation

FL-APIC

An Addressable Protocol Interface

Card used to decode and relay FIRElink detector information directly to an Hochiki ESP compliant Fire Control Panel.

- Supports both single and multi mode operation
- Full address range (1 127)
- Compatible with all FIRElink detectors and command modules



FIRElink Sampling Pipes

and connectors used in conjunction with the FIRElink Range of Air Sampling Detectors. The PipeCAD software supplied with each FIRElink detector calculates the length of pipe and configuration of sampling holes required for each installation. Prices and further details provided upon

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request.

FREVAC®

Hochiki's FIREvac range of Voice Alarm equipment consists of control panels, a range of speakers and microphones. It is a low-cost, high quality, modular range purposely designed to simplify the provision of a fully BS5839-8 compliant voice alarm system.









FIREvac Master Voice Alarm Panel

is a compact wall-mounted enclosure. Up to 10 Slave FIREvac panels *(see below)* can be connected to give more voice alarm coverage if required. Both Master and Slave FIREvac panels are also available with a hot swap amplifier.

FIREvac Slave Voice Alarm Panel

is a compact wall-mounted enclosure as per the FIREvac Master Panel. Up to 10 Slave units can be connected to 1 Master unit to provide additional audio coverage of a building. All life-critical broadcasts are generated by the Master and automatically passed to the relevant Slaves.

FV-FM

An Emergency Microphone, which

is fully compatible with the FIREvac System and allows live directive announcements by the emergency services.

- A high quality digital message store containing programmable evacuate alert and test messages
- A prioritised mixer
- Two 60 W 'Class D' amplifiers
- An EN54 compliant switch mode PSU/battery charger
- Three balanced line level inputs (for the optional connection of a firefighter's microphone, paging /public address equipment and a background music source)
- Designed to operate with the Hochiki FIREvac Master Alarm Panel
- Two 60 W 'Class D' amplifiers
- An EN54 compliant switch mode PSU/battery charger

- 'Fist' style microphone
- Housed in rugged enclosure with hinged, perspex door
- Speak bar with two status indicators (OK and Fault)
- Microphone fully monitored for fault

FV-PM

A Desk-top Microphone featuring a compressor, noise gate, equalisation controls and optional chime (none, one, two or three note).

- 'Goose-neck' desk-top style microphone
- Supplied with a standard RJ45 plug
- Chime generator can be set to 0, 1, 2 or 3 note chime (dependant on jumper settings)
- Also features speak bar, VU Meter and two status indicators, one for OK and one for fault



Speakers

Various specifications are available for use with the FIREvac Voice Evacuation System.

Prices and further details provided upon request.

FV-APL

A dual phono outreach plate designed for the integration of a background music source.

- Designed to fit standard UK single gang back box
- Negates the need for excessively long audio cabling
- ▶ Utilises standard 2-pair audio cable
- 12-32 Vdc operation



ANCILLARY EQUIPMENT

Hochiki's comprehensive range of ancillary equipment includes products to help make routine maintenance and commissioning of analogue and conventional smoke detectors easier and more reliable. The range includes head removal tools, heat detector tester poles, loop commissioning and emulation equipment and duct smoke detection equipment.









DH-24

An Electromagnetic Door Holder

designed to hold open fire doors and is ideally suited for hospitals, schools and other public buildings. In a fire situation the doors can be released automatically via a connection to the fire alarm system or manually by activating the release button.

- 24 Vdc
- Surface mounted
- 200 Newton holding force
- Swivel keeper plate
- Spring-loaded ejector pin
- Manual release button

SDP-2

A Duct Probe Housing allowing a standard photoelectric smoke detection device, either a conventional detector or an analogue sensor, to be mounted on the outside of an air duct for the purpose of monitoring the air within the duct.

(shown with sensor fitted - not supplied)

TCH-B100

A Hand Held Address Programmer

designed to address the ESP range of Sensors and other addressable devices such as the YBO-BS Base Sounder. Designed to be light, robust and easy to use it, operates from a single PP3 size battery which can provide up to 8000 operations.

(shown with sensor fitted - not supplied)

16091 A Hand Held Flame Detector

Tester providing a flame-free method of UV testing the industrial IR³ series of flame detectors: IFD-E, IFD-E(IS) and the IFD-E(Exd).

THIS EQUIPMENT IS ALSO AVAILABLE FOR **HIRE**. Please contact your Sales Representative for further information.

- Allows air duct sampling using standard detector or sensor
- Fits either square or round section ducting (with additional brackets)
- One-tube air sampling system
- Test hole on cover
- Simple installation/maintenance
- Sensitive flow indication
- Installer-friendly connection of cables
- Lightweight Design
- Quick and Reliable Addressing
- Over 8000 Address Settings From One Battery
- Displays Sensor Analogue Value

- Flame-free UV testing, ideal for hazardous areas
- Simple to use hand held unit with rechargeable NiCd battery pack and charger
- Tests many Flame Sensors Types UV, UV/IR, UV/IR², IR³, IR², IR
- Range typically 3 m and beyond
- Selectable optical output intensity with LED bar graph indication













YBN-UA

A Recess Mounting Adaptor for

both the ESP and CDX Range of sensors and detectors and their associated mounting bases. Allows a base and head combination to be flush mounted by providing a recess fixing to the ceiling.

(shown with base fitted - not supplied)

YBD-RA

A Surface Wiring Adaptor which

allows the majority of Hochiki Sensors/ Detectors and their Mounting Bases to be fitted flush against a fixing surface, whilst also allowing surface wiring (without conduit) to be connected.

TE-LCT

A Loop Commissioning Tool

designed to allow System Engineers to verify and test loops of Hochiki ESP devices before the control panel is installed/ commissioned. This enables the engineer to quickly determine the presence of cable faults and device operation.

TE-TLE

A Loop Emulator System which

consists of Software and a Hardware Interface that together allow a 'virtual' loop to be created on a PC connected to a Fire Alarm Control Panel. In this way, a complete fire detection system can be tested and proven before any actual hard-wiring commences, saving time and resources.

SOLO POLES

Fibreglass Poles designed to be completely interchangeable with all of the SOLO Tools. Manufactured in a lightweight fibreglass, the poles are completely non-conductive and have been subjected to rigorous conductivity testing to ensure the integrity of the insulating qualities.

- Allows base and analogue sensor or conventional detector to be flush mounted
- Supplied with fixing brackets
- Colour-matched to existing ivorycoloured sensor/detector ranges
- Sturdy construction, easy to install
- Suitable for a maximum ceiling thickness of 30 mm
- Compatible with the majority of existing Analogue and Conventional bases
- Colour matches standard Hochiki Analogue and Conventional sensor/detector/base ranges
- 4 pre-moulded knock-outs provide wiring entry
- Low profile only 16 mm
- Assists in the determination of earth, open and short circuit faults on loop cabling
- Easy to use, menu-driven interface displayed on large LCD screen
- Internal memory for storage of loop data with serial port for connection to PC or printer
- Compact and robust design
- Rechargeable battery and charger included
- Allows simulation of up to 4 loops of Hochiki analogue devices (127 per loop)
- System 'Cause and Effect' can be verified along with double address and short circuit simulation
- Saves time and installation costs as whole system can be tested 'virtually'
- Lightweight, non conductive
- Accept all of the SOLO tools
- Can extend to 9 m







TESTIFIRE

Testifire is a fully portable field device for functional testing of fire detectors. The unit is suitable for testing optical/photoelectric and ionisation smoke sensors, thermal sensors (fixed temperature or rate-of-rise), and carbon monoxide (CO) fire sensors, be they conventional, addressable or analogue addressable.

SOLO 200

A Universal Detector Removal Tool

suitable for the majority of current Hochiki detectors*

*Except those with flying leads, for example the DFG-60E or the ACB-EW.

SOLO 330

A Smoke Detector Tester providing functional testing to introduce (simulated) smoke or CO through the detector vents and into the sensing chamber.

SOLO 423/424

A Heat Detector Tester, mainspowered and available in both 110/120 and 220/240 V versions.

- Faster, more productive testing with just one tool
- Simultaneous stimuli (smoke and heat) can cut test times in multisensors by up to 66%
- Stimuli capsules for smoke and CO held within unit
- Powered by battery batons within pole
- Clearing cycle provides rapid detector reset with no repeat alarm
- Heat detector test times reduced through wider range of settings
- Colour-coded grips twist into place to create different size combinations
- Universal, counterbalanced joint ensures the tool remains horizontal

- Robust, lightweight design
- Spring-loaded dispenser mechanism conserves aerosol
- Touch sensitive, ideal for suspended ceilings
- Clear cup allows view of detector LED
- Test gas canisters (non CFC) are available containing either simulated smoke (for testing smoke detectors), CO (for testing CO detectors) or air (for removing dust from detectors)
- Initiates heat detectors into alarm, whether rate of rise or fixed.
- Comes complete with a 5 m lead as standard (Optional 5m extension available)



SOLO 461

A Cordless Heat Detector Tester

which utilises Cross Air Technology to ensure the correct temperature is applied to the sensing elements, not the detector plastics.

- Safe, cable free, battery-powered operation
- ► Supplied with 2 Battery Batons[™] and a fast charger
- Intelligent device, only heats when detector present





SOLO 823 KIT

A universal set for testing and removing smoke and heat detectors up to 9m high.

HE-PSU(2.5A)

A stand-alone power supply unit with integrated charger designed to be used with Hochiki's FIRELink range of air sampling detectors and the CHQ Modules that are non loop-powered (CHQ-DZM, CHQ-DZM(IS) and CHQ-DSC).

HE-PSU(5.25A)

A stand-alone power supply unit with integrated charger designed to be used with Hochiki's FIRElink range of air sampling detectors and the CHQ Modules that are non loop-powered (CHQ-DZM, CHQ-DZM(IS) and CHQ-DSC).

) SMB-1

An IP66 rated, grey (RAL7035) enclosure designed for use with the Hochiki range of Modules. Supplied with a transparent black lid as standard. Used in conjunction with the SMB-ADAPTOR this enclosure can house any of the PCB assemblies from the Hochiki Smart-Fix Module range.



SMB-2

An IP66 rated, grey (RAL7035) enclosure designed for use with the Hochiki range of DIN Modules. Supplied with a transparent black lid as standard. The unit is supplied with a DIN Rail section (plus fixings) and will accept up to six Hochiki DIN Rail Modules, side-by-side. Contains:

- 1 x Solo 100 Telescopic Pole
- 3 x Solo 101 Extension Pole
- 1 x Solo 200 Universal Detector Removal Tool
- 1 x Solo 330 Aerosol Smoke Dispenser
- I x Solo 461 Cordless Heat Detector Test Kit (includes 2 Battery Batons[™] and Charger)
- 1 x Solo 610 Protective Carrying Bag
- Enclosure mounted with battery space
- 110 V or 230 V input
- Regulated, true 24 V output
- Intelligent battery charging and temperature compensation
- House up to 26 Ah batteries
- Status indicators for monitored faults
- Dual output for powering fire alarm control panels remotely
- Fully enclosed and robust construction
- Enclosure mounted with battery space
- 110 V or 230 V input
- Regulated, true 24 V output
- Intelligent battery charging and temperature compensation
- House up to 26 Ah batteries
- Status indicators for monitored faults
- Dual output for powering fire alarm control panels remotely
- Fully enclosed and robust construction
- Quick-release screws Polyurethane gasket provides IP66 protection
- Corrosion free, resistant to most alkaline and acid
- Temperature resistance to +70°C, Impact resistant, and Non-flammable
- 32 knock-outs
- Designed to house up to 6 Hochiki DIN Modules
- Quick-release screws
- Polyurethane gasket provides IP66 protection
- Corrosion free, resistant to most alkaline and acid
- Temperature resistance to +70°C, Impact resistant, and Non-flammable
- 32 knock-outs
- Supplied with DIN Rail and fixings



SMB-3

A grey (RAL7035) enclosure designed for use with the Hochiki range of DIN Modules. Supplied with a transparent black lid as standard. The unit is supplied with a DIN Rail section (plus fixings) and will accept up to four Hochiki DIN Rail Modules, side-byside.

- Designed to house up to 4 Hochiki DIN Modules
- Quick-release screws
- Polyurethane gasket provides IP66 protection
- Corrosion free, resistant to most alkaline and acid
- Temperature resistance to +70°C, Impact resistant, and Non-flammable
- 20 knock-outs
- Supplied with DIN Rail and fixings

NOTES

Hochiki Europe (UK) Ltd. reserves the right to alter the specification of its products from time to time without notice. Although every effort has been made to ensure the accuracy of the information contained in this document it is not warranted or represented by Hochiki Europe (UK) Limited to be a complete and up-to-date description.

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Your Safety, Our Technology

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