AS Standard

FIRE DETECTION SYSTEMS

Your Safety. Our Technology.

HOCHIKI

A LEVEL OF DETECTION THAT EVERYONE LOOKS UP TO

Hochiki has been committed to providing and supporting quality detectors in Australia for more than 30 years – a commitment that will continue into the future.

CONTENTS

HOCHIKI GLOBAL NETWORK AND PROJECTS

HOCHIKI AUSTRALIA SALES TERRITORIES
ALL OCEANIA INCLUDING NZ, PAPUA, FIJI

Millburn Middle School, NJ USA

HOCHIKI AMERICA

HOCHIKI MEXICO

Eurostar Station St Pancras, London UK

Open Academy, Norwich UK

HOCHIKI EUROPE KENTEC

Qatar Financial Center Tower, Qatar Middle East

HOCHIKI MIDDLE EAST

HOCHIKI INDIA

NTU Sports Center, Taiwan

HOCHIKI TAIWAN

HOCHIKI CORPORATION

Brisbane International Airport, Australia

Melbourne International Airport, Australia

HOCHIKI AUSTRALIA

HOCHIKI BANGKOK

Windser Barra Hotel, Rio de Janeiro Brazil

Vicom Center, Ho Chi Mihn Vietnam

HOCHIKI ASIA PACIFIC

NTT Singapore, Singapore

HOCHIKI JAKARTA

COMPANY OVERVIEW

Established early in the 20th Century, Hochiki is one of the world's leading manufacturers of commercial and industrial fire detection and emergency lighting solutions.
With a heritage of innovative design and leading-edge technologies, Hochiki's products have acquired global acceptance as the bench mark for high-integrity and long-term reliability.

INTERNATIONAL COVERAGE REGIONAL COMMITMENT

Hochiki is an independent, multi-national, publicly listed company with over 1500 employees across five manufacturing plants, thirty-one sales offices and eleven subsidiaries. The company's global sales turnover exceeds $750 million per annum.

Hochiki invests in manufacturing innovation on a continual basis to ensure customer satisfaction and production facilities in Japan, the United States of America and Europe ensure international continuity of quality, service and supply.
These regional centres 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 in over 80 countries worldwide.

Hochiki's vision is to provide products to the highest levels of quality and reliability. Complying with industry standards, the ultimate quality of Hochiki's comprehensive range of products virtually eliminates false alarms and, combined with ease of installation, offers the greatest reliability with the lowest total cost of ownership possible in a modern life safety system.

CONTINUOUS UPGRADE PATH

LEGACY MODELS | CURRENTMODELS

ANALOGUE SENSORS

1992 — 1997 — 2008 — 2012

ANALOGUE SENSORS	LEGACY MODELS	CURRENT MODELS For Firenet, NFP, Phoenix Panels		CURRENT MODELS For Syncro AS and Taktis Panels
PHOTO	 ALB-E	 ALG-AS	 ALK-AS	 ALK-ASN
ION	 AIA-E	 AIE-AS		
HEAT	 ATA-E	 ATG-AS	 ACB-AS	 ACB-ASN
HEAT WATERPROOF			ACB-ASW	ACB-ASNW
MULTI		 ACA-E		 ACA-ASN
COLOUR	IVORY	IVORY		WHITE
BASE	YBF-RL/2NBF	YBN-R/2NA		YBN-R/3(WHT)
COMPATIBLE PANELS	FFE9000	 FIRENET		 SYNCRO AS Please see page 10 Syncro AS panel with Hochiki
	FFE10000	NFP		 TAKTIS Please see page 14 Taktis panel with Hochiki
	AMPAC AB3000	PHOENIX		

Please see page 32 ANALOGUE SENSORS FOR FIRENET, NFP, PHOENIX PANELS

Please see page 22 ANALOGUE SENSORS AND DEVICES FOR TAKTIS AND SYNCRO AS PANELS

CONVENTIONAL DETECTORS

1980 — 1992 — 1997 — 2004 — 2012

CONVENTIONAL DETECTORS	LEGACY MODELS		CURRENT MODELS		CURRENT MODELS For Sigma CP Panels
PHOTO	 SLG-A	 SLK-A	 SLR-AS	 SLV-AS	 SLV-AS3
ION	 SIF-A	 SIH-AM	 SIJ-ASN		
HEAT	 DCA-B-60R	 DCC-A	 DCD-A		 DCD-A3
	 DCA-B-90R	 DCC-C	 DCD-C		 DCD-C3
	 DFB-60B	 DFE-60B	 DFJ-60B		 DFJ-A3
	 DFB-90D	 DFE-90D	 DFJ-90D		 DFJ-C3
COLOUR	IVORY	IVORY	IVORY		WHITE
BASE	- YBC-RL/4H5	- YBF-RL/4AH4M - AMU-MBM Addressable Master Base - AMU-B2M Addressable Base - YBF-RL/3JM Slave Base	- YBO-R/4A With remote LED - YBN-R/4C		- YBN-R/6(WHT) - YBO-R/6PA(WHT) 2 wire base - YBO-R/6R(WHT) Latching Relay Base - YBO-R/6RN(WHT) Non Latching Relay Base
COMPATIBLE PANELS	VARIOUS	VARIOUS	VARIOUS Please see page 57 Panel compatible chart		 SIGMA CP Please see page 44 Sigma CP panel with Hochiki

Please see page 55 CONVENTIONAL DETECTORS

Please see page 48 CONVENTIONAL DETECTORS AND DEVICES FOR SIGMA CP PANELS

FEATURES (OF OUR “SMOKE DETECTORS”)

HOCHIKI’S SMOKE DETECTORS USE A STEAM-PROOF HONEYCOMB MESH STRUCTURE!!

“They are recommended to be used at locations where steam tends to generate, such as a hotel room! It is the “Fire Detector” that actually detects fires, regardless of how expensive the panel system is. Hochiki’s “Smoke Detector Series” is a result of unique technology achieved over many years. They are highly rated “Smoke Detectors” for being able to detect a fire early and also for being steam proofed.

FUNCTION 1: MAKING THE FLOW DIRECTION EVEN

By making the inner structure flat by making the internal smoke chamber flat, it enables an even direction of smoke flow providing greater and accurate sensitivity, compared to the conventional design which had emitter, receiver protrusions inside the detector chamber. This additional surface area within the chamber allows for Adhesion of insects and dust, as well as steam condensation. With this new internal chamber design false alarms caused by transient steam and other foreign particles are reduced.

ORIGINAL DESIGN

Due to inner protrusions (within the smoke detection chamber), the flow and direction of smoke becomes uneven and unnecessarily accelerates the smoke flow from the optimal direction, resulting in false alarms caused by steam and other waste products.

CURRENT DESIGN

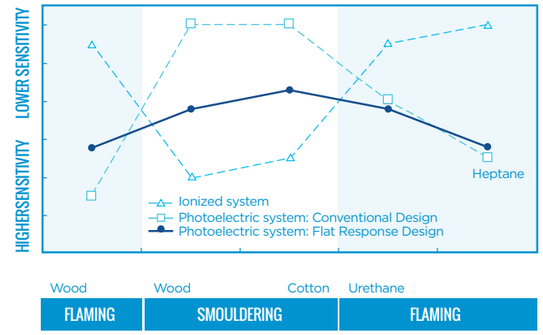
By flattening the inner structure (within the smoke detection chamber), smoke particle flow from all directions is made even; also thanks to Hochiki’s know how, false alarms caused by steam and others are prevented.

FUNCTION 2: FLAT RESPONSE FLAT SENSITIVITY AGAINST VARIOUS TYPES OF FIRE SMOKES

UNIQUE TECHNOLOGY

The structure of the detection sensor that catches scattered light is optimized by optical simulation. The sensitivity for flaming black smoke with small particles is enhanced, while the sensitivity for smouldering white smoke with large particles is reduced. This achieves almost even sensitivity to various types of fires and allows early and accurate fire detection. Further, as it has low sensitivity for steam with large particles, the chance of raising a false alarm is significantly reduced even when steam enters.

Note: Photoelectric smoke detector is based upon the principle of smoke detection using light; therefore, it is not perfect for preventing false alarms caused by steam.

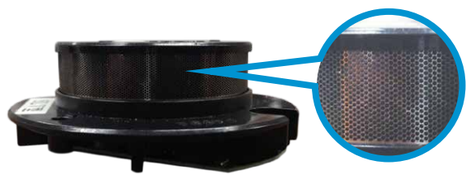


FUNCTION 3: HONEYCOMB MESH STRUCTURED INSECT MESH

UNIQUE TECHNOLOGY

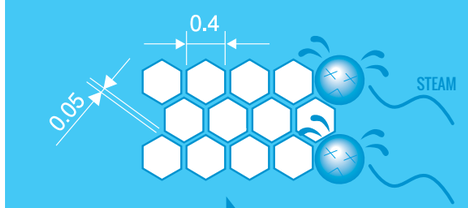
DESPITE HAVING SMALLER APERTURE, A WIDE APERTURE RATIO IS MAINTAINED

By making the aperture smaller (0.4mm), narrowing the distance between apertures (0.05mm) and widening the effective aperture ratio, it maximizes the smoke flow and improves the tolerance against insects and dust.



INSECT MESH IMAGE MANUFACTURED BY HOCHIKI

Manufactured by SUS:
t=0.1 Aperture: 79% Aperture area: 0.136mm^2



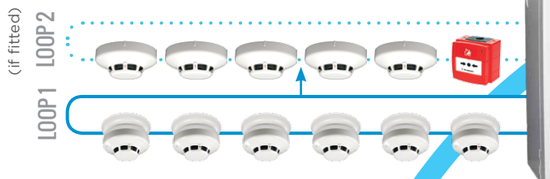
Due to the waste particle product of steam, steam is encouraged to diffuse through the insect mesh, which results in dissipation of steam reducing false alarms

HOCHIKI SYSTEM (1-2 LOOP SYNCRO AS PANEL)

HIGH INTEGRITY CONFIGURABLE NETWORK

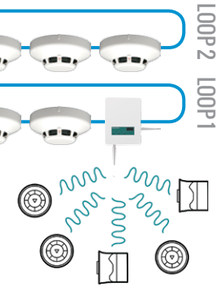
Control Panel is manufactured by Hochiki Group Company, Kentec Electronics Ltd. and distributed by Incite fire Pty Ltd.

Each loop is capable of hosting up to:
127 devices, plus
127 Sounder Bases



SYNCRO AS
1-2 Loop Analogue
Addressable Control Panel

SYNCRO AS
1-2 Loop Analogue
Addressable Control Panel



Each loop is capable of hosting up to:
127 devices, plus
127 Sounder Bases

FIREwave®
Please see page 26

24V DC or 230V AC

SYNCRO MATRIX
Fire Alarm Mimic Display System

A mixture of up to 32 devices (including Syncro View, Ident and Matrix) can be fitted to each panel on the RS485 serial interface. The maximum number of Syncro View panels on a single RS485 serial interface is 15.

24V DC or 230V AC

SYNCRO INDENT
Programmed LED Indication Panels

24V DC or 230V AC

SYNCRO VIEW
Local LCD Repeater

HOCHIKI
ANALOGUE SENSORS AND DEVICES

Supports all Syncro I/O modules.

RS485

Network card required

SYNCRO AS
1-2 Loop Analogue
Addressable Control Panel

K555 Network card required

SYNCRO AS
1-2 Loop Analogue
Addressable Control Panel

Up to 64 Panels can be added to the network

RS485

K560
16 Channel I/O Board

24V DC

K547
8 Way Relay Board

24V DC

K546
6 Way Sounder Board

24V DC

K545
4 Way Conventional Zone Board

24V DC

Up to 16 GUIDE Repeaters may be connected to a GUIDE system via a LAN (Local Area Network)

An RS232 to RS485 data converter is supplied with the GUIDE system.

SYNCRO GUIDE
Repeater Facility for GUIDE System

LAN

SYNCRO GUIDE
Graphical User Interface for fire Detection Equipment

RS485

RS232

The GUIDE dongle is fitted to the RS232 serial interface inside the Syncro Panel. It converts data to RS485 and must be fitted for the system to work.

SYNCRO AS

ANALOGUE ADDRESSABLE 1-2 LOOP CONTROL PANELS

COMPATIBLE EQUIPMENT & EXTRAS

K560 16 CHANNEL I/O BOARD

K547 8 WAY RELAY BOARD

K546 6 WAY SOUNDER BOARD

K545 4 WAY CONVENTIONAL ZONE BOARD

K555 NETWORK CARD

SYNCRO AS OVERVIEW

The Syncro AS addressable control panel is designed to meet the requirements of A7240.2, AS 7240.4.

Available in 1 or 2 loops and networkable up to 64 panels with up to 500 zones per network (the perfect solution for small and large projects), the Syncro AS is capable of driving a full loop of sounders @ 85dB.

Housed in the same installer friendly and attractively styled enclosure as the Sigma CP (conventional) and Sigma XT (extinguishant) range of control panels, the Syncro AS combines compact and practical styling with the programming power and connectivity normally associated with much larger systems.

TECHNICAL	
Overall size (std)	385W X 520H X 110D (MM)
Finish	EPOXY POWDER COATED
Colour – lid & box	BS 00 A 05 GREY – FINE TEXTURE
Colour – controls plate & labels	RAL 7047 LIGHT GREY – SATIN
Supply voltage	230V AC +10%/-15% (100 WATTS MAXIMUM)
Mains supply fuse	1.6 AMP (F1.6A L250V)
Power supply rating imax a	400MA
Power supply rating imax b	2.3A
Operating voltage	18 TO 30 VOLTS DC
Battery charging circuit impedance Rimax	1.35R
Min output current for correct operation Imin	130MA
Max ripple current	1.5 +/- 0.3V
Battery type	SEATED LEAD ACID
Battery charge voltage	27.6 VDC NOMINAL (TEMPERATURE COMPENSATED) BATTERY
Charge current	0.7A
Battery fuse	20MM 3.15A GLASS
Max current draw from batteries	3A
Aux 24V output rating	300MA MAXIMUM LOAD (FUSED AT 500MA)
Sounder output rating (2 outputs)	EACH RATED AT 1A
Relay contacts	30VDC, 1A MAXIMUM
Detection loop current	400MA

CABINET OPTIONS

M3 Cabinet
- 385W x 520H x 110D (mm)
- 2 viewing/control apertures
- Lockable window door available

M3D Cabinet
- 385W x 520H x 200D (mm)
- 2 viewing/control apertures
- Lockable window door available

M4 Cabinet
- 385W x 700H x 200D (mm)
- 3 viewing/control apertures
- Lockable window door available

Flush surround available for all cabinets

SYNCRO AS FEATURES

- ActivFire listed AFP-2761
- Approved to AS7240.2 and AS7240.4
- Available in 1 or 2 loops and networkable up to 64 panels with up to 500 zones per network (the perfect solution for small and large solutions)
- 127 devices per loop/Up to 800 sub addressable
- LCD display & 16 zone LED indication
- Compatible with Hochiki ESP detectors and modules
- Open protocol, non-proprietary software
- Software enabled with 003 key
- Optional OWS available – 20, 40, 60, 100
- Optional fan control available
- Capable of driving a high number of loop powered sounders
- Base cabinet size 385W x 520H x 110D
- Range of cabinet sizes available

Other Features
- Standard or Deep cabinet options
- 16 zonal LED indicators
- 5 preconfigued digital inputs
- Easily configured using Loop Explorer software
- Up to 32 RS485 expansion modules per panel

CONFIG FEATURES

- Comprehensive day/night mode facility
- Programmable one touch test mode
- Powerful and versatile cause & effect programming
- Cause and effect wizard including
- Cause and effect action
- Disablement configuration
- Test mode configuration

NEW FEATURES

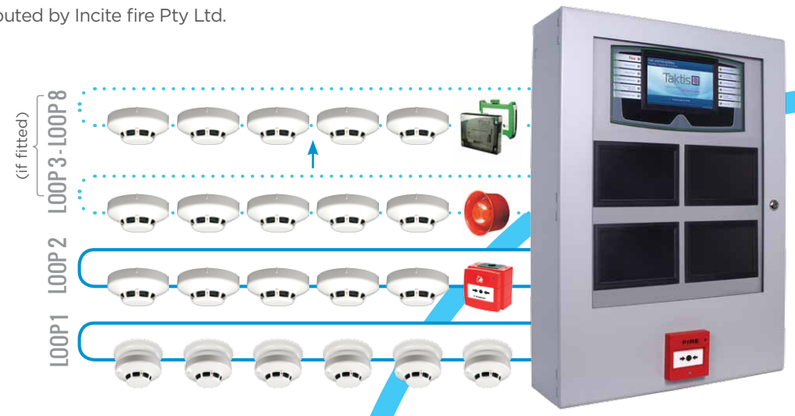
- Hotel Mode
- AAF
- Non latching detectors
- Non fire attributes: Detector options for system control only

HOCHIKI SYSTEM (2-16 LOOP TAKTIS PANEL)

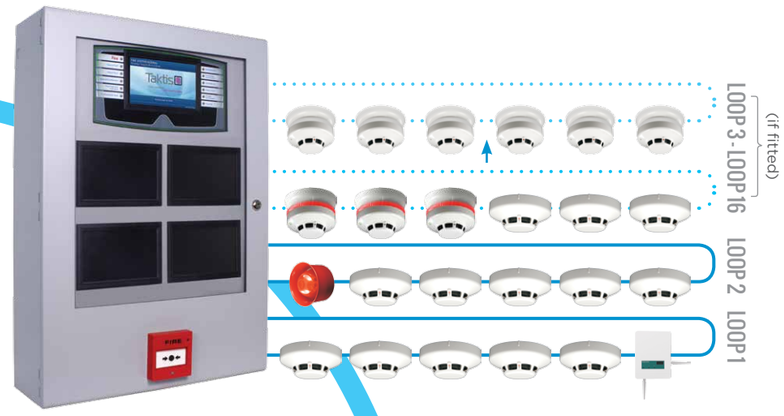
HIGH INTEGRITY CONFIGURABLE NETWORK

Control Panel is manufactured by Hochiki Group Company, Kentec Electronics Ltd. and distributed by Incite fire Pty Ltd.

Each loop is capable of hosting up to:
127 devices, plus
127 Sounder Bases

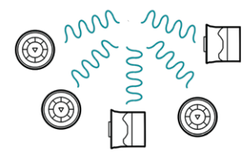


TAKTIS FIRE
2-8 Loop Analogue
Addressable Control Panel



TAKTIS FIRE
2-16 Loop Analogue
Addressable Control Panel

Each loop is capable of hosting up to:
127 devices, plus 127 Sounder Bases



HOCHIKI
ANALOGUE SENSORS AND DEVICES

FIREwave®
Please see page 26

Up to 128 Panels/Repeaters can be added to the network

TAKTIS VIRTUAL RESOURCE

- VR ACCESS - Access data from all your systems
- VR VAULT - Secure document vault
- VR SERVICE - Complete service management utility with automated data transfer
- VR PRINT - Eliminates need for panel mounted printers

Cloud Servers

GSM IP Dial-Up

TAKTIS VISION
Configurable Fire
Alarm Repeater
24 Vdc

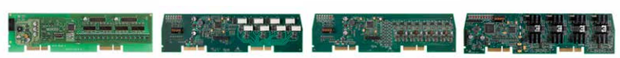
Media Gateway

TAKTIS FIRE
2-8 Loop Analogue
Addressable Control Panel

10 Cards

TAKTIS FIRE
2-16 Loop Analogue
Addressable Control Panel

Plug in slots



K772
16 Channel
I/O Board

K791
8 Way
Relay Board

K792
8 Way Conventional
Zone Board

K793
4 Way
Sounder Board

RS485 bus

TAKTIS VISION
Configurable Fire
Alarm Repeater
24 Vdc

TAKTIS FIRE

ANALOGUE ADDRESSABLE 2-16 LOOP CONTROL PANELS

COMPATIBLE EQUIPMENT & EXTRAS

SELECTION OF I/O BOARDS

TAKTIS NETWORK CARD

VR TAKTIS MEDIA GATEWAY

TAKTIS OVERVIEW

With the increasing demands for power in fire detection and alarm systems, Taktis Fire Control Panels are well placed to meet current and future needs.

All panels are available with either a 5.25A, 24V power supply capable of charging up to 26Ah batteries or a 10.25A, 24V power supply capable of charging up to 45Ah batteries. Taktis Fire can be supplied with a remote power supply unit, making the Control Panel smaller and easier to install.

Up to 500 mA are available for each detection loop allowing for a generous quantity of loop powered devices.

The four sounder circuits are each capable of supplying up to 2.5A at 24V to audio and audio visual devices.

Manage systems remotely from any location in a simple and effective manner by configuring a Taktis Media Gaterway communication device to the Virtual Resource Servers and browser based software.

Taktis Media Gateway also provides the interface between control systems, other products and utilities such as PC graphics, Voyage Data Recorder and a growing number of third party Taktis compatible products.

Configurable serial ports will allow connection to BMS systems using LonWorks, Modbus or BACnet protocols.

Taktis Fire systems are scalable with Taktis Net Enhanced High Speed Networking. This allows up to 128 panels to be connected together as a fully fault tolerant networked system with rapid interpanel communications and up to 1.2km of standard two core fire resistant cabling between nodes.

Each panel can be configured to display all or selected events from any other panel allowing master/slave, multiple master/slave or peer to peer configuration.

Sophisticated network analysis tools provide the ability to identify connection problems instantly and the commissioning mode allows individual panels to be prevented from transmitting events to the network while maintaining communications.

Adding a Taktis “Bridge” Network Card to your Taktis Panel or Taktis Network provides an interface between existing Syncro and Taktis Control Systems, providing backward compatibility and a unique upgrade path.

TAKTIS FEATURES

- AS7240-2, AS7240-4 and AS4428-3
- Support for up to 2000 zones
- Built in programmable I/Os
- Up to 512 programmable I/O via optional plug in cards
- Modbus, LonWorks and BACnet interface options
- Full colour, 7" 800 x 480 touch screen graphical display
- Fully automatic display brightness adjustment
- 80 character point and zone text
- Over 4000 sub address points per panel
- Over 5000 cause and effect outputs
- Over 20,000 cause and effect entries
- Up to 5000 software groups
- Maximum of 50,000 devices NOT and TIME as well as COINCIDENCE, OR and AND operators in cause and effects
- Option to “invert” inputs and outputs
- 9999 event log with one second resolution
- Powerful, standard configuration templates
- Network up to 128 panels
- Configurable via USB port to PC or memory stick
- Optional Media Gateway communications card

TAKTIS VISION

ANALOGUE ADDRESSABLE ANNUNCIATORS

COMPATIBLE EQUIPMENT & EXTRAS

TAKTIS NETWORK CARD

MULTI PURPOSE FLUSHING COLLAR

TAKTIS VISION OVERVIEW

Taktis Vision provides a means of allowing full display and optional control of the Taktis Fire Alarm Control Panel from a small and unobtrusive local control station.

Based on an all new hardware and software platform, the large, full colour graphical display with touch screen functionality delivers information on the status of the fire alarm system to single or multiple locations.

Taktis Vision repeaters can be configured to offer full display and control to replicate the functionality of the fire Control Panel or to operate as a simple, display only device for applications where access to control the fire alarm system would be inappropriate.

For other annunciation and control applications, Taktis Vision can be configured to provide customisable switches and indications for a host of fire system ancillary functions.

Taktis Vision may be connected to the fire Control Panels' fault tolerant, ancillary RS485 bus or to the fire alarm panel fault tolerant network using standard, fire rated cable offering flexibility in system wiring.

Available in several standard formats, Taktis Vision can be mounted directly onto a wall, be recessed using our quick-fix adaptor frame or fully flush mounted. Special enclosure finishes and colours are also available to match existing decor.

TAKTIS VISION FEATURES

- Robust, full colour, 7" 800 x 480 touch screen graphical display
- Full indication of all information displayed at the fire Control Panel
- Automatic display brightness adjustment
- Silenceable internal sounder
- Connections Via:
  - Control Panel RS485 bus
  - Option to connect to Control Panel network
- Low current, 24 Vdc powered
- Slim compact construction
- Configurable functionality
- Configurable languages
- Optional Enable key-switch

TAKTIS VIRTUAL RESOURCE

A COMPREHENSIVE SUITE OF SOFTWARE BASED TOOLS

TAKTIS VR OVERVIEW

To compliment the new, market leading range of control systems, Virtual Resource is a unique suiteof software tools aimed to deliver a whole new dimension in Life Safety System Management.

It provides system designers, integrators and service companies with the ability to remotely access and comprehensively manage any system using intelligent analysis of data collected from those systems. End-users and facilities managers can also greatly benefit from the powerful feature set that comes with Virtual Resource.

Virtual Resource is based on technology successfully trialled for many years and is one of the most technically advanced management tools for fire detection and other safety systems on the market.

With Virtual Resource, installers and service providers are able to offer market leading functionality through remote management and provide improved service at a lower cost with greater efficiency.

The remote management features offered by Virtual Resource can result in reduced fault call outs, improved servicing regimes, more effective maintenance, reduction of unwanted alarms and improved overall service to the end user.

Whether you are a service provider, building owner or facilities manager, change the way you think about managing your Fire Detection System. With Taktis Virtual Resources you can reduce costs, add value and improve service integrity by implementing the latest communication and analytical technologies.

VR ACCESS

Gain access to data from all of your systems, assess performance, check status' and make decisions based on facts, not assumptions.

VR Access allows a Virtual Resource enabled fire system to periodically report its status to the secure servers. VR Access subscribers can view the latest status report via any web enabled device.

VR VAULT

Subscribers to Virtual Resource can securely store system and site related documentation on our permanently backed up servers using VR Vault. VR Vault provides a convenient and permanently accessible storage location for all documentation related to an installation. This includes; installation drawings, commissioning details and certificates, service and maintenance records, general notes and any other documents related to the installed system that the user requires.

VR SERVICE

VR Service provides a means to set up a comprehensive fire alarm system servicing regime, adding benefit to both the end customer and service company.

Site details can be imported from VR Access or added and set up manually to create customer records.

Service frequency and device activation list schedules can be set. Allocate resources such as travelling time and estimated timings to complete the service, and include essential data for planning engineer activities. Service engineers can view and print their work schedules along with site specific notes and previous service records directly from the system if required.

VR PRINT

VR Print is designed to replace panel mounted printers which are inherently difficult to manage and provide very limited information. VR Print provides a secure method of storing and recalling the control system events via any web browser. The user can simply view the systems events on line, print PDF reports or download the data in formats, such as csv, for further data analysis.

TAKTIS VR FEATURES

- Unique Life Safety management utility
- Remote access to system data from anywhere
- Revenue driver for all business sizes
- Cut costs and drive up productivity
- Reduce environmental impact through technology
- Modular application based tool set:
  - VR Access - View and mange my projects
  - VR Vault - Store and retrieve system documentation
  - VR Service - Manage, add value and improve compliance
  - VR Print - Virtual printer
- More to come...
  More VR applications will be added to the list providing users with further enhancement to their value and revenue streams.

ANALOGUE SENSORS AND DEVICES FOR TAKTIS AND SYNCRO AS PANELS

Hochiki's comprehensive 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.

ALK-ASN

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

- High Performance Chamber
- Twin fire LEDs allow 360° viewing
- Locking mechanism (sensor to base)
- Variable sensitivity
- Electronically addressed
- Compatible Bases: YBN-R/3, YBO-BS, YBO-BSB, YBN-R/3(WHT)-SCI
- Approved to AS7240.7

ACA-ASN

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.

- High Performance Chamber
- User selectable modes
- Incorporates optical and heat elements
- Twin fire LEDs allow 360° viewing
- Pulsing/non-pulsing controlled from panel
- Variable sensitivity
- Electronically addressed
- Compatible bases: YBN-R/3, YBO-BS, YBO-BSB, YBN-R/3(WHT)-SCI
- Approval to AS7240.5, AS7240.7

ACB-ASN

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 or both elements simultaneously to be active in making the fire decision.

- 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
- Compatible bases: YBN-R/3, YBO-BS, YBO-BSB, YBN-R/3(WHT)-SCI
- AS7240.5 Classes A1, B and C

ACB-ASNW

An **IP67 Rated Waterproof Multi-Heat Sensor** which can be used externally and is supplied with its own fixing base. Flying leads from the sensor connect directly to the loop via waterproof connectors.

- 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
- AS7240.5 Classes A1, B and C

YBN-R/3

A **Common Mounting Base** which is fully compatible with ALK-ASN, ACA-ASN and ACB-ASN sensors. Supplied with square cable clamps for secure and reliable cable termination, it is also capable of driving a remote LED if required.

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

- Electronics free
- Stainless steel contacts
- Takes 2.5mm² cables
- Slim profile – only 8mm
- Rugged wiring contacts
- Facility for remote indicator
- Quick connection via square cable clamps
- Available in RED for use with CHQ-WS2 Wall Sounder and CHQ-WSB Wall Sounder Beacon

YBN-R/3 (SCI)

Model **YBN-R/3(SCI)** is a sensor mounting base featuring an integral short-circuit isolator which will detect and isolate short-circuits on the loop. When a short-circuit is detected during power up the unit will drop the power to the rest of the loop. The YBN-R/3(WHT)-SCI is compatible with Hochiki Analogue sensors, beacons, sounders and indicators and does not require a loop address. A remote fire LED facility is provided when a sensor is attached to the base.

NOTE: A fitted sensor will still be powered when this device is isolating.

- Features integral SCI
- Easy to fit
- Slim profile
- Matches standard base colours

YBO-R/SCI(RED)

The **YBO-R/SCI(RED)** Base has been designed to be used with the red CHQ-WS2 Wall Sounder, red CHQ-WSB2 Wall Sounder Beacon, red CHQ-CB ceiling Beacon or red CHQ-WB wall beacon. The YBO-R/SCI(RED) does not use an address, and has the same wiring configuration as the standard YBN-R/3 Sensor Base making it very simple to install.

- Colour matches with CHQ-WS2 Wall Sounder and CHQ-WSB Wall Sounder Beacon
- Detects short circuits on loop
- Status LED
- Connection of up to 127 per loop
- Bayonet slot, low insertion force for detectors

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).

- Loop powered
- Single loop address – addressed via the TCH-B100 hand held programmer
- Variable sound output 90 - 102 dB(A) (32 dB(A)) output at 1m
- Fits Hochiki standard or isolator base
- Weatherproof kit available
- 51 user-selectable tones (all tones AS7240.3 compatible)
- Auto-shutdown mode available*

** Please ensure Control Panel compatibility*

- Approved to AS7240.3

CHQ-WSB2

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).

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*

** Please ensure Control Panel compatibility*

- Approved to AS7240.23 – Category 'O'
- Approved to AS7240.3
- Operating voltage 17-41/vdc

WS2-WPK

A **Weatherproof Back Box and Gasket Set** for the CHQ-WS2 Wall Sounder and the CHQ-WSB Wall Sounder Beacon, increases the IP rating of the sounder to IP65 for external use.

- 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/3(SCI)* Bases.
(*From batch number 6044)

- 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 AS7240.3 compatible)
- Approved to AS7240.3

YBO-BSB2

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/3(SCI)* Bases.
(*From batch number 6044)

- Loop powered
- Single loop address, addressed by either Control Panel or TCH-B100
- 50 ~ 98 dB(A) (±2 dB(A)) output at 1m
- Fits Hochiki standard or isolator base and supports ESP sensors, beacons and remote indicators
- 51 user-selectable tones (all tones AS7240.3 compatible)
- Approved to AS7240.23 – Category 'O'
- Approved to AS7240.3
- Operating voltage 17-41/vdc
- Beacons and sounders can be controlled independently. Refer to page 32*

** Please ensure Control Panel compatibility*

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 Analogue Sensor range in shape and colour providing seamless integration.

- 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)

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 Analogue Sensor range in shape and colour providing seamless integration. The unit also features two monitored inputs.

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

CHQ-CB

An **Addressable Loop-Powered Ceiling Beacon**, with a high intensity LED and a custom designed free-form optic which produces a highly visible flash. Coverage diameters include 5m, 7.5m, 10m and 15m diameter*. The unit is designed to fit the YBN-R/3, YBN-R/3(SCI), YBO-BS or the YBO-R/SCI(RED), and is available in Red or White LEDs.

- Loop Powered
- Single loop address via TCH-B100
- High Intensity LED technology
- 0.5/1 Hz flash frequency
- Choice of 2 LED colours (red and white)
- Approved to AS7240.23 – Category 'C'
- Operating voltage 17-41 Vdc

CHQ-WB

An **Addressable Loop-Powered Wall Beacon**, with a high intensity LED and a custom designed free-form optic which produces a highly visible flash. Coverage diameters include 5m, 7.5m, 10m and 15m diameter*. The unit is designed to fit the YBN-R/3, YBN-R/3(SCI), YBO-BS or the YBO-R/SCI(RED), and is available in Red or White LEDs.

- Loop Powered
- Single loop address via TCH-B100
- High Intensity LED technology
- 0.5/1 Hz flash frequency
- Choice of 2 LED colours (red and white)
- Approved to AS7240.23 – Category 'W'
- Operating voltage 17-41 Vdc

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 Analogue loop. The unit also features two monitored inputs.

- 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 Analog loop for third-party devices
- Colour-coded flying leads for simple installation
- Addressed with TCH-B100 Hand Held Programmer

CHQ-SIM

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

- Includes a single monitored input
- Small design for simple provision of a monitored input onto an analogue loop
- Flying leads for easy installation
- Addressed with TCH-B100 Hand Held Programmer

CHQ-SOM

A **Single Output Module** has been designed to allow a single relay output to be connected to the ESP loop. The unit incorporates a volt-free relay contact that can be configured as either N/O or N/C, the relay contact is rated to 30 Vdc (max), 1 A (resistive load). The CHQ-SOM features three colour-coded flying leads, the unit also features a wiring terminal block for loop connection.

- Includes a single monitored output
- Small design for simple provision of a monitored output onto an ESP loop
- Flying leads for easy installation
- Addressed with TCH-B100 Hand Held Programmer

CHQ-DIM2(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.

- 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

CHQ-DRC2(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.

- Loop powered
- Single loop address
- Two independently controlled changeover relays
- Relays contact rated at 30 Vdc at 1 amp
- Auxiliary monitored input
- DIN Rail version available
- Both models feature an integral Short-Circuit Isolator

CHQ-DZM2(SCI)

A **Dual Zone Module** designed to allow up to 60 conventional detectors (30 per zone) to be interfaced to Hochiki's Analogue Addressable system. Also available as a DIN Rail mountable version. Both models feature an integral Short-Circuit Isolator.

- 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

CHQ-MRC2(SCI)

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.

- Loop-powered
- Single loop address
- Single mains rated relay contact
- Relay contact rated at 250 Vac at 5 amp (resistive) & 48 Vdc at 2 amp (resistive)
- Auxiliary monitored input
- Screw terminals & flying leads for easy cable termination
- DIN Rail version available
- Both models feature an integral Short-Circuit Isolator

CHQ-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
- 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 Short-Circuit Isolator

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 and features an integral Short-Circuit Isolator.

- Single loop address
- Two independent sounder circuits
- Each circuit fully monitored for open and short circuit faults
- Each alarm circuit fused at 1 amp
- Auxiliary monitored Input
- Outputs are synchronised and can be driven continuously or intermittently
- 24 Vdc auxiliary power required
- Features an integral Short-Circuit Isolator

CHQ-SZM2(SCI)

A **Single Zone Monitor** designed to allow up to 6 conventional detectors to be interfaced to Hochiki's 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

HCP-E(SCI)

A **Manual Call Point Isolator** fully compatible with Hochiki's Analogue Addressable protocol and featuring an integral Short-Circuit Isolator (SCI). Features a bicoloured LED to indicate either fire (red) or short-circuit (amber). Also features plug-in wiring terminals for easy installation.

Note – requires SR-BACKBOX if surface mounted (sold separately).

- Fast response
- Integral Short-Circuit Isolator
- Bicolour status LED
- Non-frangible element fitted as standard (conforms to EN54)
- Addressed with TCH-B100 Hand Held Programmer
- Surface or flush mounting
- Weatherproof version available: HCP-W(SCI)

HCP-W(SCI)

An **IP67 Weatherproof Manual Call Point Isolator** fully compatible with Hochiki's Analogue Addressable protocol and featuring an integral Short-Circuit Isolator (SCI). Features a bicoloured 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
- Bicolour status LED
- Non-frangible element fitted as standard (conforms to EN54)
- Addressed with TCH-B100 Hand Held Programmer
- IP67 rated

HINGED COVER (PS200)

An acylic hinged cover for the HCP-E(SCI) manual call point range which protects against accidental operation/vandalism.

- Easy to fit
- Protects against accidental activation

FIREwave®

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 minimal disturbance to its surroundings. Ideal for historic buildings, remote sites and any project where the installation of fire cabling is difficult, overly expensive or prohibited.

RSM-WTM-AS

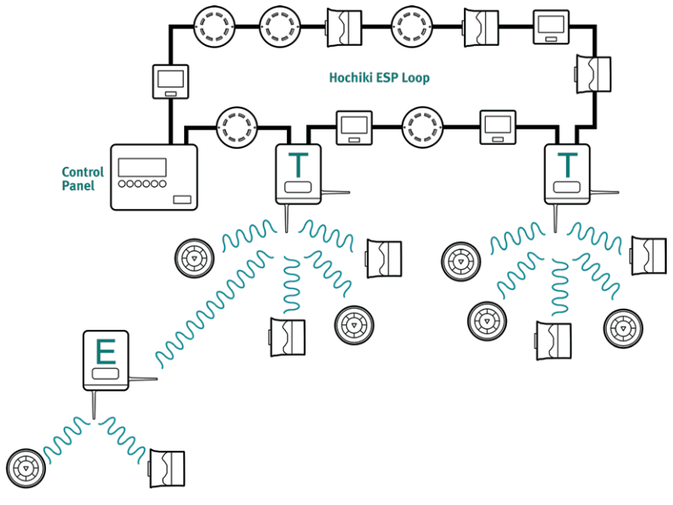
A **Wire to Wireless Translator Module** which allows a wireless fire detection system to be interfaced directly onto the loop. Fully loop-powered, the unit can support up to 32 wireless devices* or up to 7 RSM-EXP-AS Expander Modules**.

- 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
- Exterior mounting protection
- Makes additions to existing wired systems easy and cost effective
- Approved to AS4428.9-2006, EN54-17, 18

RSM-EXP-AS

A **Wire to 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-AS Expander Modules** can be supported by a single RSM-WTM-AS Wireless Translator Module.

- 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
- Exterior mounting protection
- Makes additions to existing wired systems easy and cost effective
- Requires external power supply (9 ~ 27 Vdc)
- Approved to AS4428.9-2006, EN54-18



** 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-AS

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-AS which is then in turn supported by an RSM-EXP-AS Expander Module.

- 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
- Exterior mounting protection
- Makes additions to existing wired systems easy and cost effective
- Requires external power supply for use as stand-alone zone
- Approved to AS4428.9-2006, EN54-18

RSM-IP-AS

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-AS, RSM-EXP-AS or RSM-WTM-AS.

- 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
- Makes additions to existing wired systems easy and cost effective
- Approved to AS4428.9-2006, EN54-18

RSM-OP-AS

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-AS or RSM-WTMAS. The unit’s contacts can be configured to be normally open or normally closed and switch at 30 Vdc/125 Vac at 2 A.

- 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
- High reliability and sensitivity
- Flexible on site device adjustment
- Makes additions to existing wired systems easy and cost effective
- Requires external power supply

RSM-POM-AS

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-AS, RSM-EXP-AS or RSM-WTM-AS. 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.

- 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
- Approved to AS4428.9-2006, EN54-18

RSM-CP-AS

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-AS).

- 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
- Approved to AS7240.11-2008, AS4428.9-2006

ROD-E-AS

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.

- 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
- Approved to AS7240.7-2004, AS4428.9-2006

RHD-E-AS

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.

- 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
- Approved to AS7240.5-2004 class A1R, AS4428.9-2006

RMD-E-AS

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.

- 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
- Approved to AS7240.5/7-2004, AS4428.9-2006

RSM-WS-AS (RED)

A **Wireless Intelligent Wall Sounder** providing 3 tones with an adjustable volume level up to a maximum output of 100 dB(A). Also available in white, RSM-WS-AS(WHT).

- 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
- Approved to AS4428.9-2006, EN54-3
- IP21C

RSM-WS/W-AS (RED)

A **Wireless Intelligent Weatherproof Wall Sounder** providing 3 tones with an adjustable volume level up to a maximum output of 100 dB(A). Also available in white, RSM-WS/W-AS(WHT).

- 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
- Approved to AS4428.9-2006, EN54-3
- IP66

RSM-WSB-AS (RED)

A **Wireless Intelligent Wall Sounder Beacon** providing 5 tones with an adjustable volume level up to a maximum output of 100 dB(A). Also provides a flash rate/light output of 1 Hz/1 Cd and is available in white, RSM-WSB-AS(WHT).

- 5 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
- Approved to AS4428.9-2006, EN54-3
- IP21C

RSM-WSB/W-AS (RED)

A **Wireless Intelligent Weatherproof Wall Sounder Beacon** providing 5 tones with an adjustable volume level up to a maximum output of 100 dB(A). Also provides a flash rate/light output of 1 Hz/1 Cd and is available in white, RSM-WSB/W-AS(WHT).

- 5 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
- Approved to AS4428.9-2006, EN54-3
- IP66

RSM-BS-AS

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

- 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
- Approved to AS4428.9-2006, EN54-3

RSM-BSB-AS

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 1m and a 1 Hz flash rate. The pre-moulded base will accommodate any type of FIREwave wireless detector, or a locking cover plate (RSM-C-AS).

- 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
- Approved to AS4428.9-2006, EN54-3

RSM-BSC

A **Protective Lockable Cap** which can be fitted to the RSM-BSB-AS and RSM-BS-AS wireless base sounders when either of these devices isn't fitted with a sensor.

- Easy to fit

ANALOGUE SENSORS FOR FIRENET, NFP, PHOENIX PANELS

ALK-AS

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.

- High Performance Chamber
- Twin fire LEDs allow 360° viewing
- Locking mechanism (sensor to base)
- Variable sensitivity
- Electronically addressed
- Compatible bases: YBN-R/2NA, YBO-BS, YBO-BSB, YBN-R/3(SCI)
- Approved to AS7240.7

ACA-E

A **Multi-Sensor** incorporating a thermal element and a High Performance Photoelectric Smoke Chamber.

- High Performance Chamber
- Incorporates optical & heat elements
- Twin fire LEDs allow 360° viewing
- Variable sensitivity
- Electronically addressed
- Compatible bases: YBN-R/2NA, YBO-BS, YBO-BSB, YBN-R/3(SCI)
- Approved to AS1603.1, AS1603.2

ACB-AS

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.

- User selectable modes
- Incorporates fixed temperature and rate of rise heat elements
- Twin fire LEDs allow 360° viewing
- Electronically addressed
- Compatible bases: YBN-R/2NA, YBO-BS, YBO-BSB, YBN-R/3(SCI)
- Approved to AS1603.1. Class A, B, C and D

ACB-ASW

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.

- User selectable modes
- Incorporates Fixed temperature and rate of rise heat elements
- Twin fire LEDs allow 360° viewing
- Electronically addressed
- IP67 rated
- Supplied with fixing base
- Approved to AS1603.1 Class A, B, C and D

YBN-R/2NA

A **Common Mounting Base** which is fully compatible with ALK-AS, ACA-E and ACB-AS sensors. Supplied with square cable clamps for secure and reliable cable termination and is also capable of driving a remote LED if required.

- Electronics free
- Stainless steel contacts
- Takes 2.5mm² cables
- Slim profile – only 8mm
- Rugged wiring contacts
- Facility for remote indicator
- Quick connection via square cable clamps

NEW VISUAL ALARM DEVICES

KEY FEATURES OF THE HOCHIKI RANGE OF AS7240.23 COMPLIANT VADS

- The new Wall and Ceiling Beacons in our new AS7240.23 compliant range are available with either red or white LEDs offering additional flexibility to the end-installer when deciding on the requirements of each installation
- The AS7240.23 ratings of these Beacons (the brightness of the LEDs – which affects the area that is illuminated) can be adjusted on each model from the control panel*. This reduces the number of devices required in the range as each one can produce up to three different ratings making it easier to choose the right VAD for the task.
- The circuitry in our new Wall and Ceiling Beacons is continually monitored to ensure that it is still functioning. A malfunctioning device will show at the panel as a fault saving time and effort on maintenance inspections*.
- When in operation, these Beacons monitor the LED light output via a separate sensor to ensure that a flash occurs, again saving time on scheduled walk-tests. A failure to operate is indicated as a fault at the panel**.
- The control panel can be programmed to perform an automatic daily LED check on our Wall and Ceiling Beacons, consisting of a lower power single flash, recorded by the in-built sensor. This reduces the probability of a failure on demand, just when the device is needed. A failure is indicated at the panel**.
- Our new Wall and Ceiling Beacons have the ability to be powered externally from a separate 24V power supply. This means for projects that require many VADs the loop current isn't drained by the LEDs when they are activated (meaning more devices on the loop is possible)**.
- Custom-designed lens
- LED technology
- Outdoor variants available (used with the wall sounder weatherproofing kit)

CHQ-CB

An **Addressable Loop-Powered Beacon,** with a high intensity LED and a custom designed free-form optic which produces a highly visible flash. Coverage diameters include 5m, 7.5m, 10m and 15m diameter*. The unit is designed to fit the YBN-R/3, YBN-R/3(SCI), YBO-BS or the YBO-R/SCI (RED), and is available in Red or White LEDs.

- Loop Powered
- Single loop address via TCH-B100
- High Intensity LED technology
- 0.5/1 Hz flash frequency
- Addressable via TCH-B100
- Choice of 2 LED colours (red and white)
- Approved to AS7240.23 – Category 'C'
- High efficiency
- Selectable light output**
- Operating voltage 17-41 Vdc

PRODUCT MODEL INFORMATION			
TYPE	BASE MODELS	LED COLOUR	PRODUCT COLOUR
CEILING BEACONS	CHQ-CB/WL	WHITE	IVORY
	CHQ-CB(WHT)/WL	WHITE	WHITE
	CHQ-CB(RED)/WL	WHITE	RED
	CHQ-CB/WL-15	WHITE	IVORY
	CHQ-CB(WHT)/WL-15	WHITE	WHITE
	CHQ-CB(RED)/WL-15	WHITE	RED
	CHQ-CB/RL	RED	IVORY
	CHQ-CB(WHT)/RL	RED	WHITE
	CHQ-CB(RED)/RL	RED	RED

*0.5Hz flash frequency white LED **Panel compatibility dependent

CHQ-WB

An **Addressable Loop-Powered Beacon,** with a high intensity LED and a custom designed free-form optic which produces a highly visible flash. The unit is designed to fit the YBN-R/3, YBN-R/3(SCI), YBO-BS or the YBO-R/SCI(RED), and is available in Red or White LEDs.

- Loop Powered
- Single loop address via TCH-B100
- High Intensity LED technology
- 0.5/1 Hz flash frequency
- Addressable via TCH-B100
- Choice of 2 LED colours (red and white)
- Approved to AS7240.23 – Category 'W'
- High efficiency
- Selectable light output**
- Operating voltage 17-41 Vdc

TYPE	BASE MODELS	LED COLOUR	PRODUCT COLOUR
WALL BEACONS	CHQ-WB/WL	WHITE	IVORY
	CHQ-WB(WHT)/WL	WHITE	WHITE
	CHQ-WB(RED)/WL	WHITE	RED
	CHQ-WB/RL	RED	IVORY
	CHQ-WB(WHT)/RL	RED	WHITE
	CHQ-WB(RED)/RL	RED	RED

**Panel compatibility dependent

YBO-BSB2

An **Addressable Loop-Powered Base Sounder Beacon,** providing 13 volume levels and 51 tones with a maximum output of up to 98 dB(A) (32 dB(A)) with low current consumption. The unit is designed to fit either the YBN-R/3, YBN-R/SCI Bases.

- Loop Powered
- Single Loop Address, addressed by either Control Panel or TCH-B100
- 50 ~ 98 dB(A) (32 dB(A)) output at 1m
- Fits Hochiki Standard or Isolator Bases and supports ESP Sensors and Remote Indicator
- 51 User-Selectable Tones (all tones AS7240.3 compatible)
- Beacon and Sounder can be controlled independently**
- Approved to AS7240.23 – Category 'O'
- Approved to AS7240.3
- Operating voltage 17-41 Vdc

TYPE	BASE MODELS	LED COLOUR	PRODUCT COLOUR
BASE SOUNDER BEACONS	YBO-BSB2/WL	WHITE	IVORY
	YBO-BSB2(WHT)/WL	WHITE	WHITE
	YBO-BSB2/RL	RED	IVORY
	YBO-BSB2(WHT)/RL	RED	WHITE

**Panel compatibility dependent

CHQ-WSB2

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).

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**
- Approved to AS7240.23 – Category 'O'
- Approved to AS7240.3
- Operating voltage 17-41 Vdc

TYPE	BASE MODELS	LED COLOUR	PRODUCT COLOUR
WALL SOUNDER BEACONS	CHQ-WSB2/WL	WHITE	RED
	CHQ-WSB2(WHT)/WL	WHITE	WHITE
	CHQ-WSB2/RL	RED	RED
	CHQ-WSB2(WHT)/RL	RED	WHITE

**Panel compatibility dependent

CHOOSING YOUR VAD

ANALOGUE AND CONVENTIONAL

With the wide choice of VAD variants available, it might seem a daunting task to identify the best unit for the application. Therefore we have devised this simple configuration table which allows you to source the correct VAD by answering questions and following the branches to the appropriate device variant. Simply select the VAD type, then the case colour and finally the LED colour. The ratings column allows you to check the coverage volume settings available. Coverage volumes are selected via the CIE*.

ANALOGUE

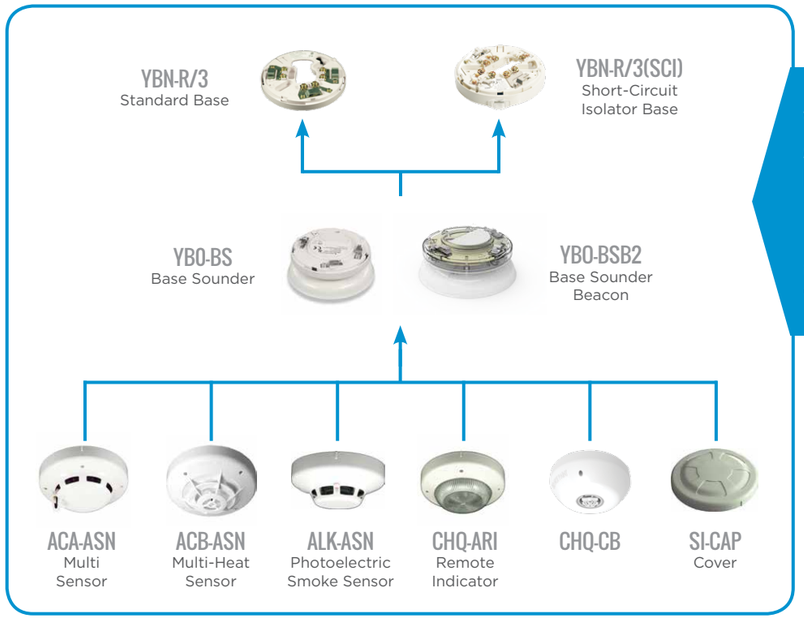
WHAT TYPE OF VAD?	WHICH CASE COLOUR	WHICH LED COLOUR	PRODUCT
BASE SOUNDER BEACON	IVORY CASE	WHITE LEDS	YBO-BSB2/WL
		RED LEDS	YBO-BSB2/RL
	WHITE CASE	WHITE LEDS	YBO-BSB2(WHT)/WL
		RED LEDS	YBO-BSB2(WHT)/RL
WALL SOUNDER BEACON	RED CASE	WHITE LEDS	CHQ-WSB2/WL
		RED LEDS	CHQ-WSB2/RL
	WHITE CASE	WHITE LEDS	CHQ-WSB2(WHT)/WL
		RED LEDS	CHQ-WSB2(WHT)/RL
CEILING BEACON	IVORY CASE	RED LEDS	CHQ-CB/RL
		WHITE LEDS	CHQ-CB/WL CHQ-CB/WL-15
	WHITE CASE	RED LEDS	CHQ-CB(WHT)/RL
		WHITE LEDS	CHQ-CB(WHT)/WL CHQ-CB(WHT)/WL-15
	RED CASE	RED LEDS	CHQ-CB(RED)/RL
		WHITE LEDS	CHQ-CB(RED)/WL CHQ-CB(RED)/WL-15
WALL BEACON	IVORY CASE	WHITE LEDS	CHQ-WB/WL
		RED LEDS	CHQ-WB/RL
	WHITE CASE	WHITE LEDS	CHQ-WB(WHT)/WL
		RED LEDS	CHQ-WB(WHT)/RL
	RED CASE	WHITE LEDS	CHQ-WB(RED)/WL
		RED LEDS	CHQ-WB(RED)/RL

CONVENTIONAL

WHAT TYPE OF VAD?	WHICH CASE COLOUR	WHICH LED COLOUR	IP65	PRODUCT
CONVENTIONAL BEACON	WHITE CASE	WHITE LEDS	NO	CWST-WW-S5
			YES	CWST-WW-W5
		RED LEDS	NO	CWST-WR-S5
			YES	CWST-WR-W5
	RED CASE	WHITE LEDS	NO	CWST-RW-S5
			YES	CWST-RW-W5
		RED LEDS	NO	CWST-RR-S5
			YES	CWST-RR-W5

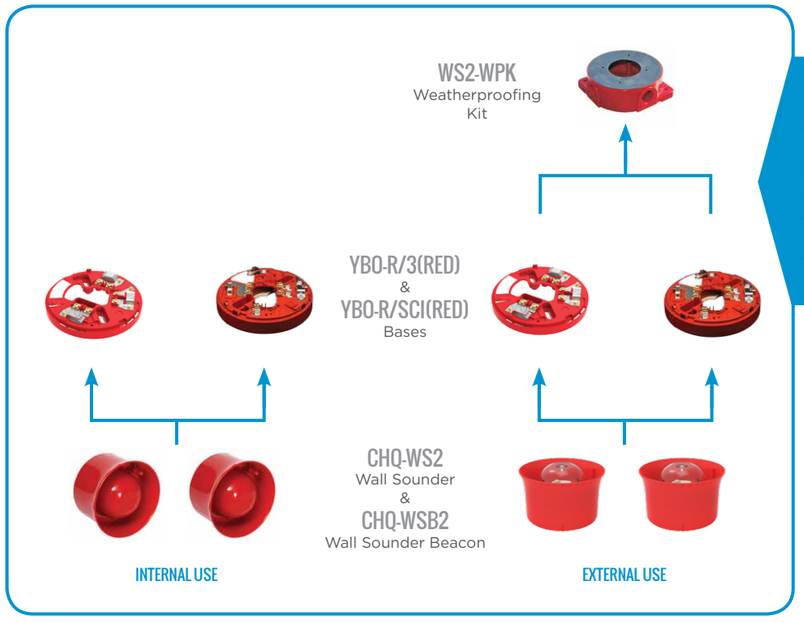
TECHNOLOGY GUIDE

AUDIO AND VISUAL PRODUCTS



YBO-BS BASE SOUNDER AND YBO-BSB2 BASE SOUNDER BEACON CONNECTIVITY

This chart shows how the YBO-BS Base Sounder and the YBO-BSB2 Base Sounder Beacon connects to bases, sensors and audio/visual devices in the Hochiki ESP Range.



CHQ-WS2 WALL SOUNDER & CHQ-WSB WALL SOUNDER BEACON CONNECTIVITY

This chart shows how the CHQ-WS2 and CHQ-WSB2 connects to bases and the weatherproofing kit.

ADDRESSING THE YBO-BS, YBO-BSB2, CHQ-WS2 AND CHQ-WSB2

The default address of these units is 254.
If the YBO-BS or YBO-BSB2 is to be used as a base sounder (sensor, beacon or remote indicator on top) then the address will not need to be changed, as the control panel will automatically address the sounder as described below. However, if the sounder is to be used purely as a wall sounder then the unit will need to be manually addressed between 1 and 127 as described below.

AUTOMATIC ADDRESSING (BY CONTROL PANEL)

The control panel automatically assigns the address to the base sounder during initialisation. The address is calculated by taking the address of the sensor that is fitted to the base sounder and adding 127, this is then stored within the base sounder. For example, if a sensor is set at address 10 then the base sounder would be automatically set at address 137 (Addresses above 127 may not be visible to the user depending upon the implementation by the Control Panel).

MANUAL ADDRESSING (BY HAND HELD PROGRAMMER)

The address can also be set using the Hand Held Programmer (TCH-B100) between 1 and 254. See the TCHB100 instructions for further details on the address setting process. If the YBO-BS or YBO-BSB2 is to be used as a wall sounder then the address should be programmed between 1 and 127 before being installed. When installed vertically as a wall sounder these devices should also be fitted with an additional cover, the SI/CAP.

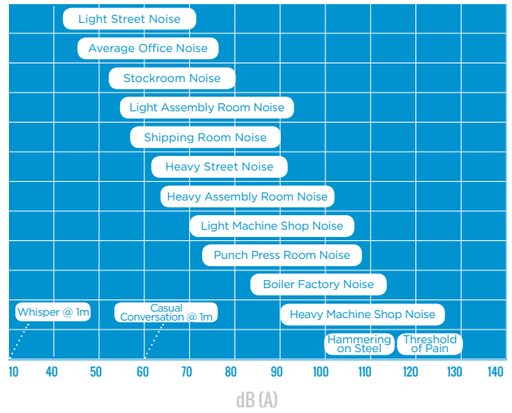
LOSS OF DECIBELS – SURFACES

The type of surfaces that predominate in the location of the Sounder will affect the maximum Sounder volume level:

HARD FINISHES	Solid stone or brick walls Solid ceilings Stone or tiled flooring	LOSE 0 dB(A)
MEDIUM FINISHES	Acoustic ceiling tiles Plastered walls 5% Soft coverings Composite flooring (eg. Laminate)	LOSE 8 dB(A)
SOFT FINISHES	Aucoustic ceiling tiles Plastered walls 5% Soft covering Carpeted flooring	LOSE 9 dB(A)

For example, a Sounder producing 95dB(A) @ 1 metre mounted within an area predominately furnished with soft finishes will actually only produce 86dB(A) @ 1 metre.

LOSS OF DECIBELS – SOUNDER FREQUENCY RANGE



Adjustments to a Sounder's maximum volume level should be made depending on the frequency range of the Sounder:

SOUNDER FREQUENCY RANGE	ADJUSTMENT
UP TO 500Hz	LOSE 0 dB(A)
500Hz TO 1000Hz	LOSE 3 dB(A)
1000Hz TO 2000Hz	LOSE 5 dB(A)

LOSS OF DECIBELS – OTHER CONSIDERATIONS

- Subtract 3dB(A) from Sounder's maximum volume level for safety margin – allowing for manufacturers tolerances.
- There is an inherent loss of volume through doors, lose 17dB(A) through normal doors, lose 27dB(A) through fire doors.

LOSS OF DECIBELS – OVER DISTANCE

This table shows the decrease in Sounder volume over distance.

TIP

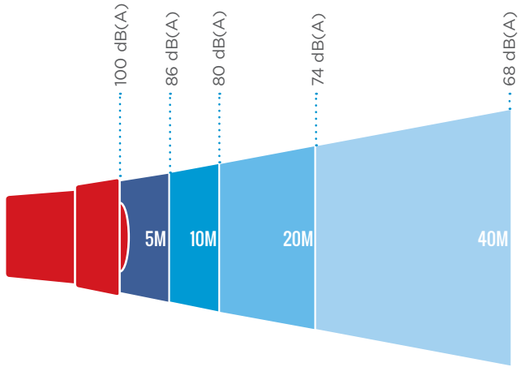
Use the maximum Sounder volume level taking into account the Sounder's frequency range and the loss of volume through surfaces and doors as described above before calculating loss over distance:

M	dB(A)																								
1	65	70	80	85	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130
2	59	64	74	79	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124
3	55	60	70	75	80	82	84	86	88	90	92	94	94	98	100	102	104	106	108	110	112	114	116	118	120
5	51	56	66	71	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116
10	45	50	60	65	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110
20	39	44	54	59	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104
30	35	40	50	55	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
50	-	36	46	51	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96
100		-	40	45	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90
200			-	39	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84
300				-	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80
500					-	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76
1000						-	-	-	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70
2000									-	-	-	38	40	42	44	46	48	50	52	54	56	58	60	62	64
3000												-	-	38	40	42	44	46	48	50	52	54	56	58	60
5000														-	-	38	40	42	44	46	48	50	52	54	56

This loss can be calculated with the following formula:

XDB(A) @ Y METRES = (X-6)DB(A) @ 2Y METRES

For example:
100dB(A) @ 1 metre = (100-6)dB(A) @ 2 metres
∴100dB(A) @ 1 metre = 94dB(A) @ 2 metres



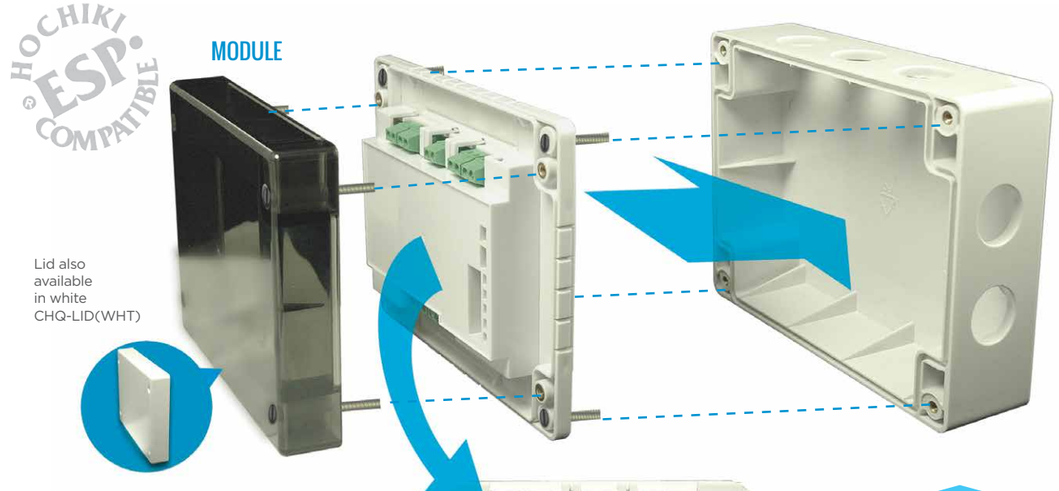
CHQ 'SMART FIX' MODULES

Hochiki's CHQ "Smart-Fix" input/output interface modules are compactly designed for the monitoring and control of external equipment from the loop utilising Hochiki's unique ultra intelligent noise-immune communications – ESP ('Enhanced System Protocol'). The "Smart-Fix" housing system offers the installer complete flexibility with a choice of fixing configurations.

The CHQ Range includes Switch Monitors, Conventional Zone Monitors, Relay Outputs (24V and 240V) and Sounder Outputs and a combination of both inputs and outputs are available on the same device. Each Input/Output unit requires only one loop address and any combination of units can be installed within the maximum address range.

Ruggedly packaged, the CHQ "Smart-Fix" range offers greater flexibility during installation with various configurations available including a choice of white or semi-opaque lids, weather-proof back box and adaptor for retro-fit projects. All CHQ modules also come as a DIN Rail mountable version and all variants can be supplied with or without an integral short-circuit isolator.

DIN Rail Version



CHQ-ADAPTOR

Designed to allow the "Smart-FIx" range of modules to be housed within existing enclosures originally designed for the first generation CHQ-OEM modules by modifying the "footprint" of the unit. Simply unclip the PCB from the the module and clip onto the CHQ-ADAPTOR.

CHQ-BACKBOX

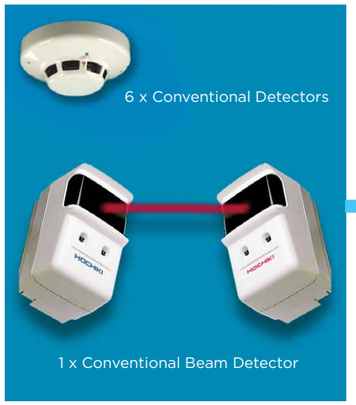
Provides 10 glanded cable entry knockouts (glands not included) and increases the IP rating of the module from IP21 to IP65. Simply screw module to backbox with supplied bolts.

CHQ-DSC DUAL SOUNDER CONTROLLER

The **CHQ-DSC** has been designed to provide two sounder outputs with full fault monitoring. The monitored input can be used for local power supply fault mon i tor ing or as a general purpose input. The input and both sounder outputs only need the allocation of one ESP loop address.

CHQ-SZM2 SINGLE ZONE MODULE

The **CHQ-SZM2** has been designed to interface to a small conventional zone, allowing up to 6 conventional smoke and heat detectors or one beam smoke detector to be interfaced with the ASX Range of analogue products on ESP systems. The unit also provides a remote alarm output for local indication.

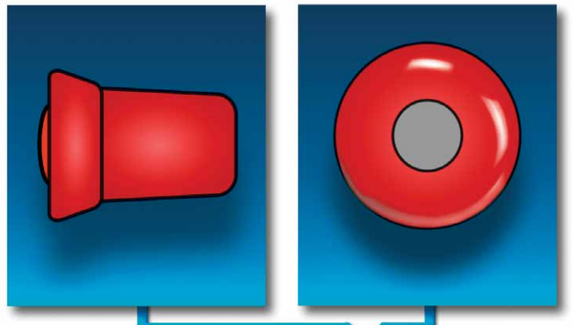


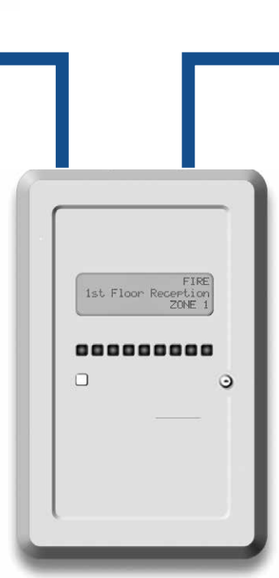
CHQ-DRC2 DUAL RELAY CONTROLLER

The **CHQ-DRC2** has been designed to provide two general purpose relay outputs. Each output can be separately driven for control of devices such as dampeners or for the control of plant and equipment shutdown. The general purpose monitored input can be used for local fire and fault monitoring. The input and both relay outputs only require the allocation of one ESP loop address.

Machine Shutdown
(30V DC 1A)

Valve Shutdown
(30V DC 1A)





Emergency Exit Monitoring

Sprinkler Flow Switch

CHQ-DIM2 DUAL INPUT MODULE

The **CHQ-DIM2** has been designed to interface to a variety of inputs such as door contacts, sprinkler flow/door switch es and plant equipment faults. The unit is particularly suited to applications where fast response is required to the input change as with remote fire inputs.

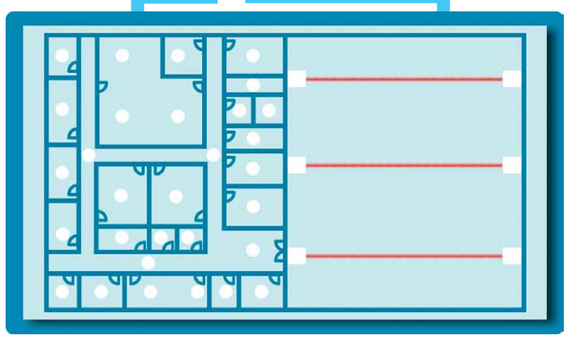
Escalator Shutdown
(240V AC 5A)

CHQ-MRC2 MAINS RELAY CONTROLLER

The **CHQ-MRC2** has been designed primarily to provide switching of mains. This capability allows plant to be shut down directly from the loop, without the need for additional power supplies. The general purpose monitored input can be used for local fire and fault monitoring.

ZONE 1

ZONE 2



30 x Conventional Detectors

3 x Conventional Beam Detectors

CHQ-DZM2 DUAL ZONE MODULE

The **CHQ-DZM2** has been designed to interface to two independent zones of conventional detectors, allowing conventional smoke and heat detectors or beam smoke detectors to be interfaced with ESP Range products on ESP sys tems. The unit provides an auxiliary output for local alarm indication.

INPUT/OUTPUT

AUXILIARY POWER
24Vd.c

LOOP CABLES

HIGH PERFORMANCE CHAMBER TECHNOLOGY

“Typically photoelectric smoke sensors/detectors have been more sensitive to smoke emitted by smouldering fires and less sensitivity to smoke emitted from flaming fires (see fig 5 on page 43). Generally if the sensitivity to the flaming fire is improved, the sensitivity to the smouldering fire would become very high, significantly increasing the possibility of unwanted alarms.

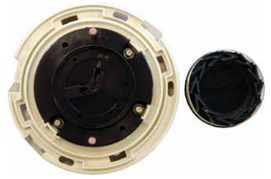
CHAMBER DESIGN

To produce a stable smoke sensor/detector with the minimum of unwanted alarms the sensitivity to smoke produced in smouldering fires should be reduced rather than increased. To overcome this problem Hochiki undertook a major research project to examine the key parameters of light scattering principals.

Hochiki’s research found that by redesigning the internal optical angle and chamber structure within the photoelectric smoke sensor/detector, the chamber design could minimise the differences in sensitivity to smoke particles produced by flaming and smouldering fires. By honing this angle, Hochiki developed a High Performance optical chamber that would be more equally responsive to all smoke types:

SLK-A

(original chamber design)
Original angle of internal optics resulted in a different response to each test fire



SLV-AS3 / ALK-ASN / ACA-ASN

(current chamber design)
Current angle of internal optics results in a consistent response to each test fire

SMOKE DETECTION PRINCIPLES

When a light source (incident light) hits a smoke particle it is deflected and becomes scattered light, generally known as “backscatter“. The angle at which this light is scattered is known as the Scattering Angle.

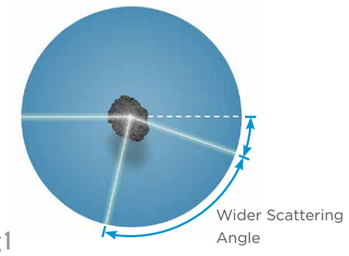


fig 1

As the Scattering Angle increases the relative sensitivity of the smoke sensor/detector to the type of fire is reduced, allowing the sensor to give a flatter response across the different test fires (see fig 4 on page 43). The amount of ‘backscatter‘ is dependent on particle size and colour smoke.

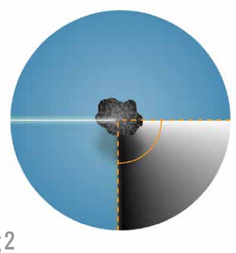


fig 2

The above diagram represents the intensity and scattering angle for kerosene smoke particles, the test for flaming fires producing black smoke. Note the low intensity.

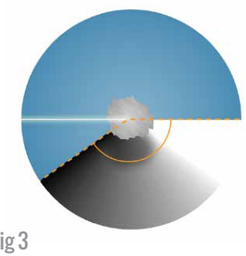


fig 3

The above diagram represents the intensity and scattering angle for paper smoke particles, the test for smouldering fires producing white smoke. Note the higher intensity and wider angle.

This new generation of photoelectric smoke chamber gives very similar sensitivity results to that of an ionisation smoke chamber, allowing Hochiki to phase out ionisation detection (an environmentally unfriendly technology) in the majority of cases. When considering the recent regulations brought in under the ‘RAMRoad’, the Radioactive Material (Road Transport) Regulations 2002, which are imposing stringent safeguarding controls on distribution of products employing ionisation technology, High Performance optical technology provides an alternative solution.

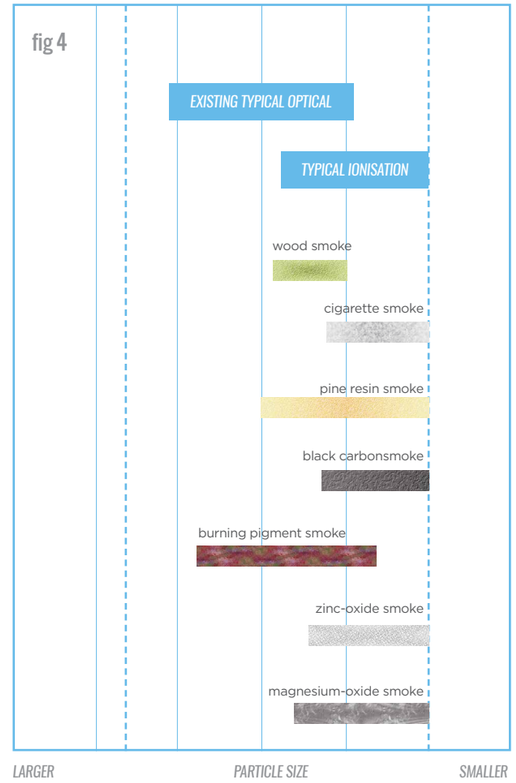
This chamber design has also removed the requirement for additional thermal elements to achieve the high performance which generally add cost and complexity to the product.
This then allows the thermal elements to be used to supply additional functionality (for example the ACA-E multi-sensor).

PARTICLE SIZES

This innovative chamber design has been used both in Hochiki’s conventional detector (SLV-AS3, SLV-AS)and analogue sensors (ALK-ASN and ACA-E) and this change has allowed these Photoelectric smoke detectors and sensors to exceed the AS7240 part 7 standard. The illustration on the right (fig 4) shows the effect of this in a more practical form, showing the causes of smoke in terms of particle sizes and the ability of Hochiki’s High Performance optical smoke chamber to detect the widest range of particles. It can be seen that the performance of Hochiki’s High Performance optical detector exceeds the combination of both the typical optical and ionisation smoke detectors.

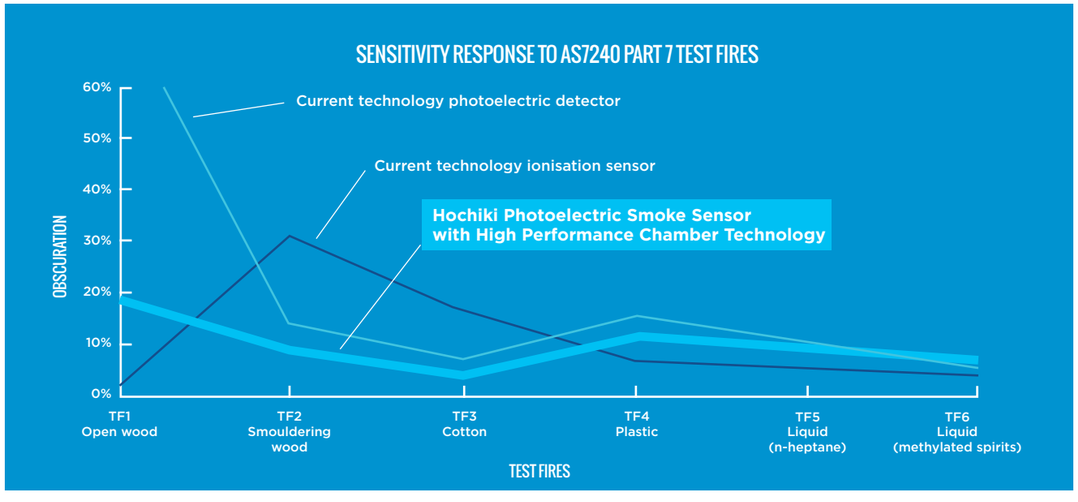
HOCHIKI HIGH PERFORMANCE PHOTOELECTRIC SMOKE DETECTOR

fig 4



The Sensitivity Response graph below (fig 5) shows the response to the AS7240 test fires and the sensitivity of the Hochiki Photoelectric Smoke Detectors against a typical ionisation smoke detector.

fig 5



SIGMA CP PANEL WITH HOCHIKI

CONVENTIONAL CONTROL PANEL

Control Panel is manufactured by Hochiki Group Company, Kentec Electronics Ltd. and distributed by Incite fire Pty Ltd.

PROGRAMMABLE FUNCTIONS

Simple Menu Options

- Adjustable sounder time delay
- Sounder configuration options
- Coincidence input selection
- I.S. barrier selection by zone
- Short circuit by fire zone
- Non latching zones
- Silent zones
- Zone input delay
- General panel configuration

OPTIONS

Australian Interface Module

- Additional outputs, alarm, fault & disablement
- Door holder output (time delay release option) with 1A contact rating
- ACF monitored output and control

Manual Call Point

- MCP fitted to front of cabinet

Occupant Warning System

8way Relay Card

SIGMA CP OVERVIEW

The Sigma CP range consists of a series of fire alarm control panels designed in accordance with Australian Standards AS7240.2 and AS7240.4 Fire Detection and Fire Alarm Systems – Control & indicating equipment

The range consists of 2, 4 and 8 zone control panels. The zones are selectable for either:

- Standard Zone – Detectors and call points arewired on separate circuits (cables) to the sounders (2 sounder circuits are provided)
- 2-Wire Zone – Detectors, call points and sounders are wired to the same pair of cables, commonly referred to as a two wire system

Wiring sounders to the detection circuit eliminates the need to install sounder circuit cables and also offers the ability to provide zoned or two stage sounder operation

Note: When using the two wire system, compatible Hochiki detectors and call points must be used. All sounders must be polarised.

TECHNICAL	
Construction	1.2MM MILD SHEET STEEL
Finish	EPOXY POWDER COATED
Colour – lid & box	BS 00 A 05 GREY – FINE TEXTURE
Colour – controls plate & labels	RAL 7047 LIGHT GREY – SATIN
Supply voltage	230V AC +10%/-15% (100 WATTS MAXIMUM)
Mains supply fuse	1.6 AMP (F1.6A L250V)
Power supply DC rating	24V 3AMP
Maximum battery size	7AH 12V (2 PER PANEL)
Fault contact rating	30V DC 1 AMP
Local fire contact rating	30V DC 1 AMP
Fire contact rating	30V DC 1 AMP
Sounder output rating	0.5A PER OUTPUT (MAX. 1.6A OVER ALL OUTPUTS)
Sounder circuit EOL	10K 5%
Detection zone current	1.6 MA
Detection zone EOL resistor	6K8 5%
Cable capacity	2.5MM^2 PER TERMINAL
Operating temperature	-5°C TO +40°C
Operating humidity	<95% (NON CONDENSING)
M2 cabinet dimensions	385W X 310H X 90D
M3 cabinet dimensions	385W X 520H X 110D
IP Rating	IP30

SIGMA CP FEATURES

- Activfire listed AFP-2516
- Approved to AS7240.2, AS7240.4
- 2, 4 or 8 detection zones
- System enabled via 003 key switch
- Powder coated metal cabinet
- Operating temperature -5°C to +40°C
- Simple single board construction
- Installer friendly
- Compatible with Hochiki detectors
- Two monitored sounder outputs
- 3amp power supply
- Two wire system selectable (sounders & detectors on same circuit)
- Optional OWS module available

SIGMA XT PANEL WITH HOCHIKI

EXTINGUISHANT CONTROL PANEL

Control Panel is manufactured by Hochiki Group Company, Kentec Electronics Ltd. and distributed by Incite fire Pty Ltd.

SIGMA XT FEATURES

- Approved to AS7240.2 and AS7240.4 Activfire listed AFP-2516 – SIGMA
- Complies with AS ISO 14520.1
- 2, 4 or 8 detection zones
- System enabled via 003 key switch
- 3 levels of access
- 1-4 extinguishant areas
- Dual risk input selectable from any zone (up to 8 zones)
- Configurable detection delays
- Zero time delay option upon manual release
- Dedicated service isolation switch
- Countdown indicator shows time until release, in seconds
- Data bus cabling for Sigma remote status unit and Sigma warning signs

COMPATIBLE EQUIPMENT & EXTRAS

RS485 WARNING SIGN (FLUSH SURROUND AVAILABLE)

REMOTE STATUS UNIT

SIGMA XT OVERVIEW

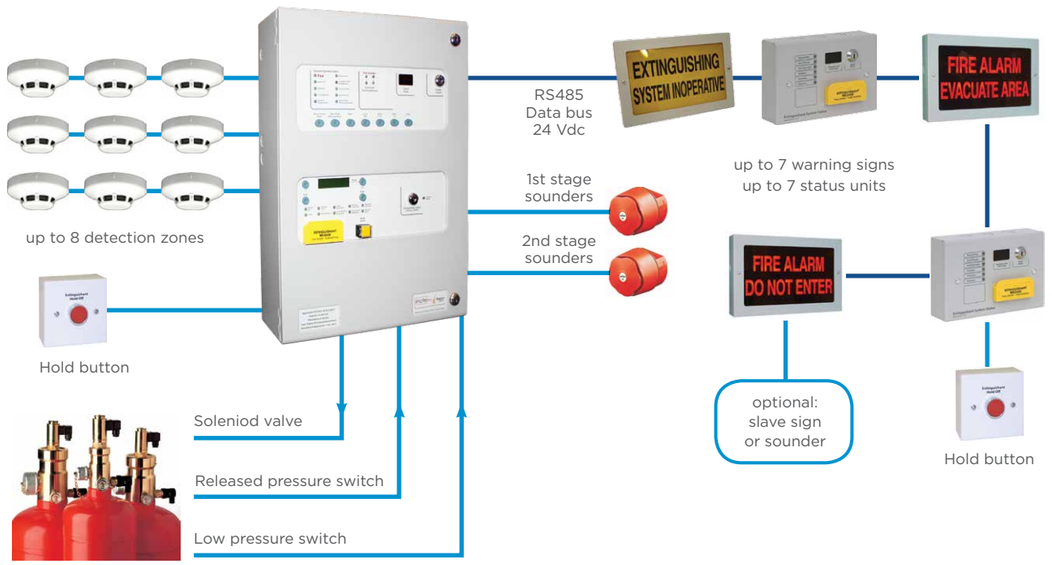
The Sigma XT extinguishant control panels designed to the requirements of AS7240.2, AS7240.4 and AS ISO 14520.1

- Each extinguishant module has a comprehensive set of inputs and outputs and is configurable via the panels LCD display and simple menus
- The data bus cabling of the Sigma warning signs and Sigma remote status units, simplifies and minimises cable requirements and maximises monitoring of these external devices

OTHER FEATURES

- Configurable extinguishant delays up to 60 secs at 5 sec intervals
- Configurable extinguishant duration up to 5 min at 5 sec intervals
- Compatible with I.S barriers
- Resettable extinguishant release switch
- Extract fan control
- Non-latching zone input option
- Disable extinguishant sub system
- Activate extract fan output
- Activate alarm delays

TECHNICAL	
Construction	1.2MM MILD SHEET STEEL
Finish	EPOXY POWDER COATED
Colour – lid & box	BS 00 A 05 GREY – FINE TEXTURE
Colour – controls plate & labels	RAL 7047 LIGHT GREY – SATIN
Supply voltage	230V AC +10%/-15% (100 WATTS MAXIMUM)
Mains supply fuse	1.6 AMP (F1.6A L250V)
Power supply DC rating	3 AMPS TOTAL INCL. BATTERY CHARGE 28V +/- 2V
Maximum battery size	7AH 12V (2 PER PANEL)
Fault contact rating	30V DC 1 AMP
Local fire contact rating	30V DC 1 AMP
Fire contact rating	30V DC 1 AMP
Sounder output rating	0.5A PER OUTPUT (MAX. 1.6A OVER ALL OUTPUTS)
Operating temperature	-5°C TO +40°C
Sounder circuit EOL	10K 5%
Detection zone current	1.6 MA
Detection zone EOL resistor	6K8 5%
Monitored input EOL resistor	6K8 5%
Extinguishant output EOL	IN4004 DIODE
Extinguishant release O/P	21-28VDC. Fused at 1 Amp
Extinguishant release delay	0-60 SECS
Status unit / Warning sign connection	RS485
IP Rating	IP30



NEW CONVENTIONAL DETECTORS AND DEVICES FOR SIGMA CP PANELS

New Conventional Fire Detection. Hochiki's Conventional Range offers one of the most extensive product portfolios available, providing solutions for most conventional fire applications, with a heritage of innovative design and leading edge technologies.

New conventional range can be utilised across both fire detection systems AND security systems satisfying ALL your conventional detection needs in one simple easy-to-install range, the benefits include:

- Quick Installation
- Easy-fit Bases
- Twin Alarm LEDs
- Anti-Tamper Locking Mechanism

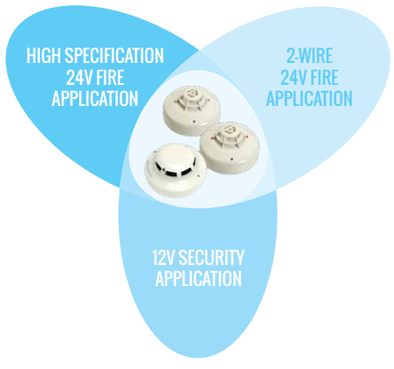
The range features a minimised number of detectors and bases that still fulfil the requirements of even the most demanding applications, reducing the stock holding required and ensuring that the installer has the correct detector or base available.

VERSATILITY

High specification combined with the ability to work on 2-Wire systems and Security Systems make this Conventional Range the No.1 choice for installers, system designers and specifiers.

RELIABILITY

Third party approved to Australian Standards (AS7240) which makes this range suitable for all high reliability fire detection requirements.



HIGH SPECIFICATION 24V FIRE APPLICATION

High Performance Chamber Technology enabling the detector to be equally sensitive to a much wider range of combustible materials.

12V SECURITY APPLICATION

Same High Performance range of detectors

Ultra wide operating voltage range, will operate on 12V security systems

Simple Relay Base

2-WIRE 24V FIRE APPLICATION

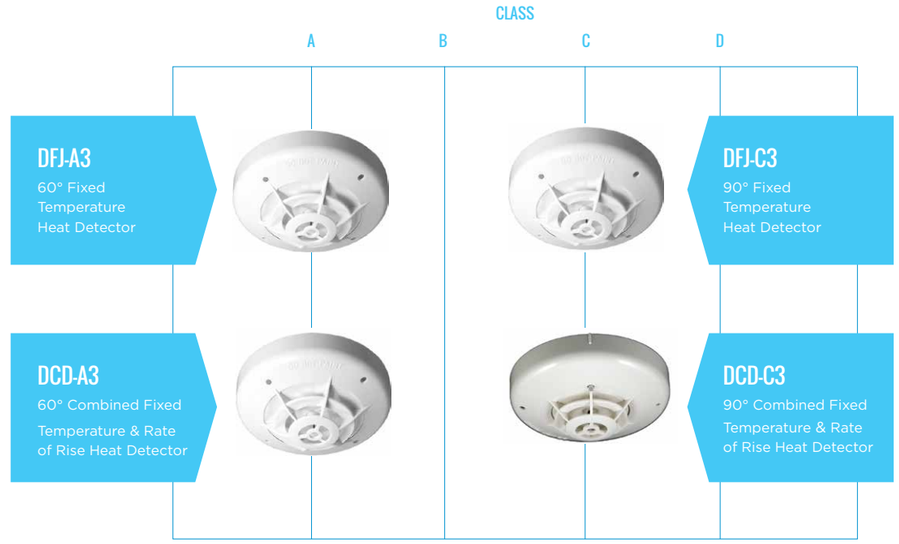
Same High Performance range of detectors

Sounders and Call Points on the same wiring as detectors

Specialised base uniquely designed for this type of application (YBO-R/6PA)

Simple installation and wiring methods

AS7240 HEAT CLASSIFICATION



	A	B	C	D
TYPICAL* APPLICATION TEMPERATURE	25°C	40°C	55°C	70°C
MAXIMUM APPLICATION TEMPERATURE	50°C	65°C	80°C	95°C

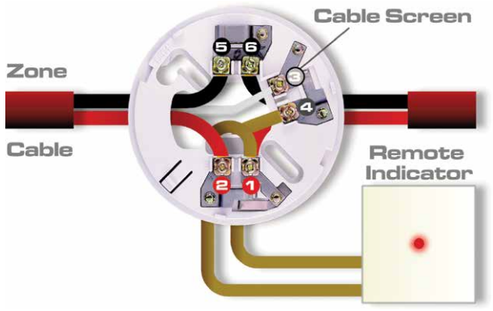
*Typical Application Temperature means the ambient temperature of the environment appropriate for that particular detector type.

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.

The standard Conventional base (YBN-R/6) should be wired as shown below. The remote indicator output is taken from terminals 1 and 4 (if required).

- Integral remote indicator output
- Low Profile, only 8mm
- Rugged design and electronics free
- Quick connections via square cable clamps
- Accepts up to 2.5mm2 cables
- Bayonet slot, low insertion force for detectors.



BASE VARIATIONS

YBO-R/6PA

For use with compatible 2-Wire systems.

YBO-R/6R

A latching Relay version of the standard base (YBN-R/6).

YBO-R/6RN

A non-latching Relay version of the standard base (YBN-R/6).

SLV-AS3

The **SLV-AS3 is a Photoelectric Smoke Detector** which incorporates Hochiki's unique High Performance Photoelectric Smoke Chamber removing the need to use Ionisation Detectors in the majority of applications. An integral third terminal provides a remote indicator output.

- 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 to AS7240.7

DCD-A3

A **Model DCD-A3 is a Rate of Rise Heat Detector** with a 60°C fixed temperature element using a thermistor and linearising circuit to provide an accurate linear response heat detector. A third terminal provides integral remote indicator output. The DCD-A3 is ideal for use where medium ambient temperatures exist, such as drying rooms or where smoke detectors are unsuitable because of the presence of steam or cooking fumes such as in a kitchen.

- 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 to AS7240.5

DCD-C3

A **Model DCD-C3 is a Rate of Rise Heat Detector** with a 90°C fixed temperature element using a thermistor and linearising circuit to provide an accurate linear response heat detector. A third terminal provides integral remote indicator output. The DCD-C3 is ideal for use where medium ambient temperatures exist, such as drying rooms or where smoke detectors are unsuitable because of the presence of steam or cooking fumes such as in a kitchen.

- 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 to AS7240.5

DFJ-A3

A **Model DFJ-A3 is a 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. The DFJ-A3 is ideal for use where medium ambient temperatures exist, such as drying rooms or where smoke detectors are unsuitable because of the presence of steam or cooking fumes such as in a kitchen.

- Electronic linear heat detection
- Remote Indicator output
- Wide voltage range (9.5 - 30 Vdc)
- Twin fire LEDs allow 360° viewing
- Fixed temperature detector
- Range of mounting bases
- Approved to AS7240.5

DFJ-C3

A **Model DFJ-C3 is a 90°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. The DFJ-C3 is ideal for use where medium ambient temperatures exist, such as drying rooms or where smoke detectors are unsuitable because of the presence of steam or cooking fumes such as in a kitchen.

- 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 to AS7240.5

YBN-R/6

A **Model YBN-R/6 is a Conventional Detector Mounting Base** associated with the NEW Sigma CP series range of detectors.

- Integral remote indicator output
- Low Profile, only 8mm
- Rugged design and electronics free
- Quick connections via square cable clamps
- Accepts 2.5mm² cables
- Bayonet slot, low insertion force for detectors

YBO-R/6PA

A **Model YBO-R/6PA is a Conventional Detector Mounting Base** for 2 wire Systems where detectors and sounders are on the same zone cables.

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

YBO-R/6R

A **Conventional Latching Relay Mounting Base**.
Model YBOR/6R is a conventional detector mounting base associated with the NEW conventional range of detectors.

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

YBO-R/6RN

A **Conventional Non-Latching Relay Mounting Base**.
Model YBOR/6RN is a conventional detector mounting base associated with the NEW conventional range of detectors.

- Integral Remote Indicator
- Wide Voltage Range – can be used in security systems
- Rugged design
- Quick connections via square cable clamps
- Accepts 2.5mm² cables
- Bayonet slot, low insertion force for detectors

DFG-60BLKJ(AS)

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.

- Waterproof design – rated to IP67
- Low profile shape
- Utilises a bimetallic strip to sense temperature change
- No mounting base required
- Minimal standby current
- Approved to AS7240.5

DRD-AS

A **Conventional Flame Detector** designed for internal use to detect large flames. The detection zone is a 90° cone and the detection range is up to and including 25m.

- Class 1 performance as defined in BS EN54-10:2002 (range up to 25m)
- 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
- Compatible bases: YBN-R/6, YBO-R/6PA
- Approved to EN54-10

CSB-E

A **Conventional Base Sounder** which has been designed to complement the Hochiki conventional range of detectors. Improved electronic design enables very low current consumption whilst providing a range of tones and volumes selectable from each unit.

- Robust design
- Low current consumption
- Easy to install
- Maximum 93 dB(A) at 1m (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 Hochiki conventional 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.

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

CS/CAP

A **Protective lockable Cap** which can be fitted to the CSB-E and CSBB-E Conventional base sounders – when either of these devices isn't fitted with a sensor.

- Protects Wiring Terminals On Isolator Bases And Base Sounders
- Easy To Fit

CWST

A range of Conventional Beacons, which can be used as wall or ceiling devices. All variants feature high output LEDs, advanced optics and an innovative lens design, providing outstanding omni-directional light coverage at low current draw. Coverage volumes include 194m3 and 92m3 (wall mounted at 2.4m) and between 208m3 and 638m3 (ceiling mounted between 3m and 9m). The range includes 8 variants, which are determined by case colour (red or white), LED colour (red or white) and back box (standard or weatherproof (IP65)).

- Approved to AS7240.23, C & W categories
- Advanced optics ensure superior light coverage at low current draw
- Synchronised flash exceeds AS7240.23 standard
- Soft start feature reduces power surges during system start-up

* *Please see page 33 – Choosing VAD*

CONVENTIONAL DETECTORS AND DEVICES FOR SIGMA CP PANELS

BANSHEE EXCEL (BE-SSB)

An **Electronic Conventional Sounder** which can be installed internally.

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

BANSHEE EXCEL IP66 (BE-SDB)

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 1m (dependant on tone selected)
- 32 user-selectable tones

BANSHEE EXCEL LITE (BEL-SBSB)

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 1m (dependant on tone selected)
- 32 user-selectable tones

BANSHEE EXCEL LITE IP66 (BEL-SBDB)

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 1m (dependant on tone selected)
- 32 user-selectable tones

CLB-E

A **Conventional Beacon** for use on 24V sounder circuits. The unit is fitted with a Fresnel lens and high-intensity LEDs, a design which produces a highly visible flash. The casing exactly matches the Hochiki conventional detector range in shape and colour providing seamless integration.

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

CCP-E

The **CCP-E is a conventional call point** based upon the industry standard KAC world series housing and features easy to install, push fit wiring terminals. The unit can support either Frangible Glass element or Non Frangible Plastic element.

Note – requires SRBACKBOX if surface mounted (sold separately).

- Supports either a 'Frangible Glass' element or a 'Non Frangible Plastic' element
- Terminals can accommodate up to a 2.5mm² solid conductor
- Approved to EN54
- Rugged design

CCP-W

The **CCP-W is a IP67 Weatherproof conventional call point** based upon the industry standard KAC world series housing and features easy to install, push fit wiring terminals. The unit can support either Frangible Glass element or Non Frangible Plastic element.

Note – requires SR-BACKBOX if surface mounted (sold separately).

- Supports either a 'Frangible Glass' element or a 'Non Frangible Plastic' element
- Terminals can accommodate up to a 2.5mm² solid conductor
- Approved to EN54
- Weatherproof IP67
- Rugged design

CONVENTIONAL DETECTORS

"Conventional Fire Detection. Hochiki's Conventional Range offers one of the most extensive product portfolios available, providing solutions for most conventional fire applications, with a heritage of innovative design and leading edge technologies.

SLV-AS

A **Conventional Photoelectric Smoke Detector**, which is fully compatible with the majority of existing conventional systems.

- High Performance Chamber
- Low profile design with one piece outer cover
- Twin fire LEDs allow 360° viewing
- Remote Indicator output (with YBO-R/4A base)
- Compatible bases: YBO-R/4A and YBN-R/4C
- Approved to AS1603.2

DCD-A

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.

- Electronic linear heat detection
- Twin fire LEDs allow 360° viewing
- Remote Indicator output (with YBO-R/4A base)
- Compatible bases: YBO-R/4A and YBN-R/4C
- Approved to AS1603.1

DCD-C

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.

- Electronic linear heat detection
- Twin fire LEDs allow 360° viewing
- Remote Indicator output (with YBO-R/4A base)
- Compatible bases: YBO-R/4A and YBN-R/4C
- Approved to AS1603.1

DFJ-60B

A **Conventional 60°C Fixed Temperature Heat Detector** using a thermistor and linearising circuit to provide an accurate linear response heat detector.

- Electronic linear heat detection
- Twin fire LEDs allow 360° viewing
- Fixed temperature detector
- Remote indicator output (YBO-R/4A base)
- Compatible bases: YBO-R/4A and YBN-R/4C
- Approved to AS1603.1

DFJ-90D

A **Conventional 90°C Fixed Temperature Heat Detector** using a thermistor and linearising circuit to provide an accurate linear response.

- Electronic linear heat detection
- Twin fire LEDs allow 360° viewing
- Fixed temperature detector
- Remote indicator output (YBO-R/4A base)
- Compatible bases: YBO-R/4A and YBN-R/4C
- Approval: AS1603.1

SPC-AS

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

- 5 – 100m range
- Automatic compensation
- Automatic signal strength adjustment
- Features a Latching or Non-Latching Fault Relay
- Can be interfaced onto Hochiki Analogue system via CHQ-DZM or CHQ-SZM
- Approved to AS7240.12

YBO-R/4A

A **Conventional Detector Mounting Base** with remote LED function associated with SLV-AS, DCD-A, DCD-C, DFJ-60B, DFJ-90D.

- Remote indicator output
- 10mm profile
- Rugged design and electronics free
- Quick connections via square cable clamps
- Accepts 2.5mm² cables
- Bayonet slot, low insertion force for detectors

YBN-R/4C

A **Conventional Detector Mounting Base** without remote LED function associated with SLV-AS, DCD-A, DCD-C, DFJ-60B, DFJ90D.

- Low profile, only 8mm
- Rugged design and electronics free
- Quick connections via square cable clamps
- Accepts 2.5mm² cables
- Bayonet slot, low insertion force for detectors

DFG-60BLKJ (AS)

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.

- Waterproof design – rated to IP67
- Low profile shape
- Utilises a bimetallic strip to sense temperature change
- No mounting base required
- Minimal standby current
- Approved to AS7240.5

DRD-AS

A **Conventional Flame Detector** designed for internal use to detect large flames. The detection zone is a 90° cone and the detection range is up to and including 25m.

- Class 1 performance as defined in BS EN54-10:2002 (range up to 25m)
- 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
- Compatible bases: YBN-R/6, YBO-R/6PA
- Approved to EN54-10

HOCHIKI CONVENTIONAL DETECTORS PANEL COMPATIBILITY CHART

(MAXIMUM NUMBER OF DEVICES ALLOWED PER AZF)

MANUFACTURER	PANEL MODEL NUMBER	DETECTOR					
		THERMAL DCD-A	THERMAL DFJ-60B	THERMAL DCD-C	THERMAL DFJ-90D	SMOKE SLR-AS SLV -AS	SMOKE SIJ-ASN
AMPAC	ZONESENSE	40	40	40	40	40	40
	AB1000, AB800, AB2000, AP1542	39	39	39	39	39	31
	AP 1671 FIREFINDER	40	40	40	40	40	40
	AB3000, AP1417,	40	40	40	40	40	40
	XP 95 DEVICE	40	40	40	40	40	40
	AB04	33	33	33	33	33	26
	AB40	23	23	16	16	N/C	N/C
CHUBB FFE	FFE MCP-002, 10000 LAM, 10000 DCM	40	40	40	40	40	33
	8070, SCP-90,FB-208/56	40	40	40	40	40	40
	HOCHIKI CHQ-DZM(CHQ-Z)FIELD DEVICE	30	30	30	30	30	30
	NFP/PHOENIX CCI CARD	40	40	40	40	40	40
	FIRENET CCI CARD	40	40	40	40	40	40
INERTIA	ZJ1000	40	40	40	40	40	39
	2400 & 008	40	40	40	40	40	40
BROOKS PANALECT	MODEL 128	29	29	29	29	29	23
	MODEL 199	18	18	18	18	18	14
	2010V	40	40	40	40	40	40
	MICROFIRE	40	40	40	40	40	40
VIGILANT	F4000, F3200	40	40	40	40	40	40
	F5000 AZF 301 1K8	40	40	40	40	40	37
	F5000 AZF 301 2K7	31	31	31	31	31	25
	F08	N/C	N/C	N/C	N/C	N/C	N/C
NOTIFIER	2600 & 888	40	40	40	40	40	40
	CFP800	20	20	25	25	20	22
	AFP-100, AFP-200, MMX-2, ID-200, AM2020	40	40	40	40	40	40
ZITON	ZP-E50	40	40	40	40	40	40
	ZP5 AS2	40	40	40	40	40	40
	ZP5 AS1	34	34	23	23	34	34
MATTHEWS FIRE	FYRTEL MICRO 900	35	35	25	25	35	40
DIGITRON	SERIES 86	40	40	40	40	40	40
HONEYWELL	FS90 & 809A	40	40	40	40	40	40
O'DONNELL GRIFFEN	MICRO 1000	40	40	40	40	40	40
	MXL CZM-1	23	23	23	23	23	19
SIMPLEX	4020	40	40	40	40	40	40
	2120	28	28	28	28	28	23
	4100	33	33	33	33	33	27

MARINE FIRE DETECTION

> All marine fire detection products have been approved by either Lloyds Register or Germanischer Lloyd. They are ideal for marine use, such as on ships and oil rigs.

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.

- 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

** Please ensure Control Panel compatibility*

AC B-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.

- 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 by LPCB to Classes A, B & C
- Approved to MED by GL

** Please ensure Control Panel compatibility*

DRD-EM

A **Marine approved conventional Infra-Red Flame detector** designed for internal use to detect large flames. The detection zone is a 90° cone and the detection range is up to and including 25 m.

- 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
- Twin LEDs for 360 degree viewing
- Approved to MED by GL

YBN-R/3M

A **Marine Approved Common Mounting Base** which is fully compatible with Hochiki's analogue 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.

- Electronics free
- Supports ESP marine approved sensors
- Stainless steel contacts
- Takes 2.5mm² cables
- Slim profile – only 8mm
- Rugged wiring contacts
- Facility for remote indicator
- Quick connection via square cable clamps
- Approved to MED by GL

YBO-R/SCIM

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

- Detects short circuits on loop
- Status LED
- Connection of up to 127 per loop
- Supports marine approved sensors
- Quick connection via square cable clamps
- Approved to MED by GL

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 Short-Circuit Isolator.

- 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

CHQ-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.

- Loop powered
- Single loop address
- Two independently controlled changeover relays
- Relays contact rated at 30 Vdc at 1 amp
- Auxiliary monitored input
- Features an integral Short-Circuit Isolator
- Approved to MED by GL

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.

- Single loop address
- Two independent sounder circuits
- Each circuit fully monitored for open and short circuit faults
- Each alarm circuit fused at 1 amp
- 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

CHQ-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 Analogue Addressable system. Features 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
- Features an integral Short-Circuit Isolator
- Approved to MED by GL

HCP-EM

A **Marine Approved Analogue Addressable Manual Call Point** fully compatible with Hochiki's Analogue Addressable protocol and featuring plug-in wiring terminals for easy installation.

Note – requires SR-BACKBOX if surface mounted (sold separately).

- 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

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.

- 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
- One master base
- Approved by LPCB, LR and GL

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.

- Electronic linear heat detection
- Remote indicator output
- Wide voltage range (9.5 - 30 Vdc)
- Twin fire LEDs allow 360° viewing
- Approved by LPCB, LR and GL

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, LR and GL

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.

- Integral remote indicator output
- Low profile, only 8mm
- Rugged design
- Electronics free
- Quick connections via square cable clamps
- Accepts 2.5mm² cables
- Bayonet slot, low insertion force for detectors
- Approved by LR and GL

MBB-1

A **Marine Back Box** providing a splash proof and secure fixing for the Hochiki Analogue and conventional 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.

- 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 by LR and GL
- Non-marine use version available (SBB-1)

A105N ALARM SOUNDER

The **A105N** is a high output, 112dB(A) alarm sounder. Low current consumptionand high SPL in a robust fire retardant IP66 housing ensure the A105N issuitable for all general signalling applications including fire, security and process control.

- Automatic synchronisation on multi-sounder system.
- Continuously rated.
- Stainless steel fixings.
- Unit can be mounted using external lugs or internal BESA compatible fixing positions.
- Duplicate cable terminations (in & out for daisy-chain installations).
- Tropicalisation available on request.
- Available with custom tone configurations and frequencies.
- Marine Equipment Directive (MED) Certificate: 19 702 – 11 HH

A112N ALARM SOUNDER

The **A112N** is a high output, 119dB(A) alarm sounder. High SPL in a robust fire retardant IP66 housing ensure the A112N is suitable for all general signalling applications including fire, security and process control.

- Automatic synchronisation on multi-sounder system.
- Continuously rated.
- Stainless steel fixings.
- Unit can be mounted using external lugs or internal BESA compatible fixing positions.
- Duplicate cable terminations (in & out for daisy-chain installations).
- Tropicalisation available on request.
- Available with custom tone configurations and frequencies.
- Marine Equipment Directive (MED) Certificate: 19 702 – 11 HH

BEXS110/BEXDS110 ALARM SOUNDERS

The flameproof **BExS110 alarm sounders** are suitable for Zone 1 & Zone 2 applications and the BExDS110 sounders also for Zone 21 & 22. Sound level ouputs are up to 117dB(A) at 1 metre with a choice of 32 alarm tones and 3 remotely selectable stages. The BEx range features enclosures manufactured from corrosion proof, marine grade copper free LM6 aluminium which is phosphated and powder coated. The re-entrant flare horns are high impact, fire retardant ABS. All models have two M20 cable entries, large termination areas containing in & out terminals (Ex de version only) and an ingress protection of IP66/67 (Ex d) and IP66 (Ex de).

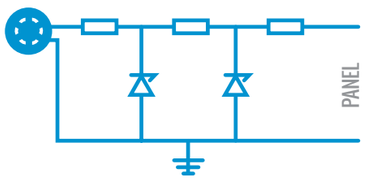
- Automatic synchronisation on multi-sounder system.
- Very large termination area.
- Ratchet adjustable stainless steel 'U' bracket.
- IN & OUT terminals (Ex de version only).
- Marine Equipment Directive (MED) Certificate: 19 702 – 11 HH

INTRINSICALLY SAFE FIRE DETECTION

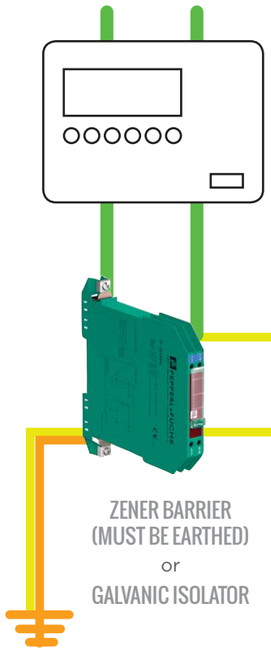
Hochiki's Intrinsically Safe Conventional range of products has been designed around the existing world-proven Hochiki conventional range. The detectors have been approved for hazardous area use by both LPCB and Germanischer Lloyd.

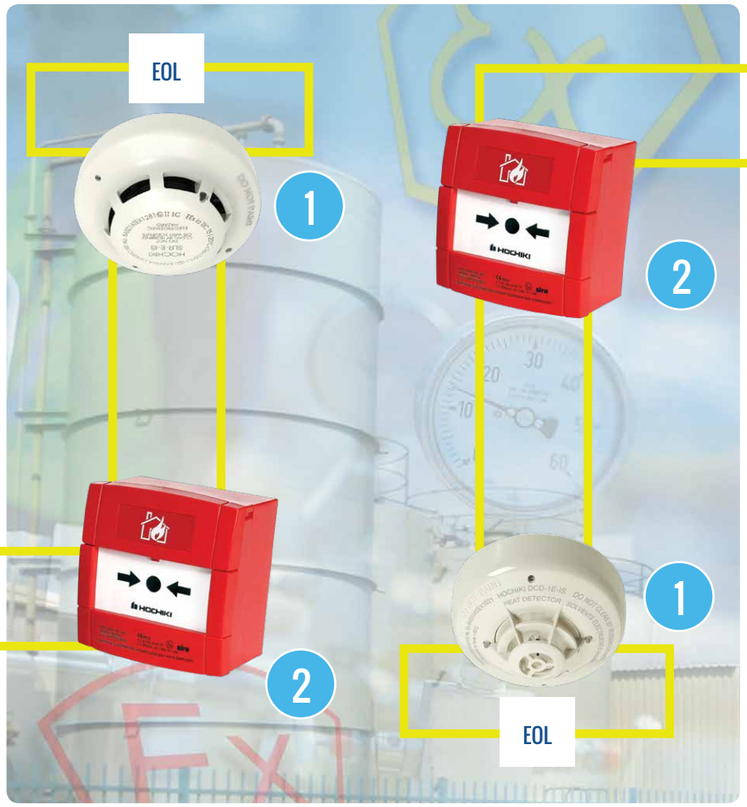
Z787 ZENER BARRIER

The Zener Barrier is a relatively simple device, the technique employed to reduce the amount of energy entering the hazardous area is the limiting of the voltage and current using resistors and zener diodes. Zener Barriers require earthing in accordance with standards (typically <1 ohm to main building earth point).



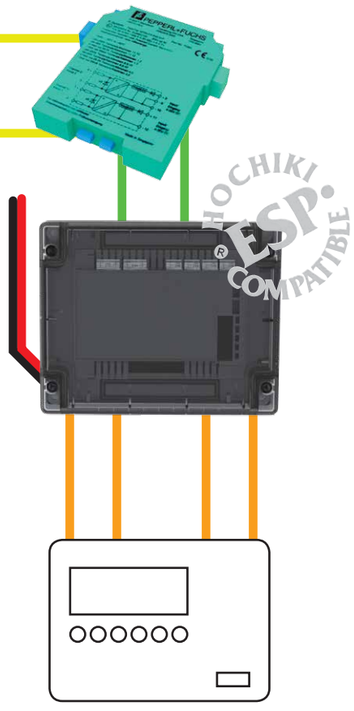
CONVENTIONAL CONTROL PANEL





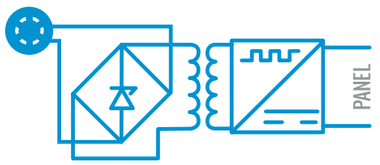
HAZARDOUS AREA

GALVANIC ISOLATOR ONLY



KFD0-C5-EX2.5IP ISOLATED BARRIER

This isolated barrier is used for intrinsic safety applications. It transfers DC signals from fire alarms, smoke alarms, and temperature sensors in hazardous areas. It can also be used to control I/P converters, power solenoids, LEDs, and audible alarms.



Ex II 1 G E Ex ia IIC T5 Tamb=55°C Ex

- BASEEFA Flammable Atmospheres symbol
- Maximum normal environment temperature
- Maximum Surface Temperature of any component, "T5" = 100oC
- Defines Gas Group within which device can be used
- Method of Protection, "ia" = Intrinsically Safe with two faults
- Explosion protected
- Meets European Standard
- Type of Explosive Atmosphere, "G" = Gas group
- Equipment Category, "1" = Very High Protection
- Equipment Group, "II" = Non-mining Atmospheres
- EU Explosives Atmospheres symbol

Hochiki's Intrinsically Safe detectors have been certified by BASEEFA under the new ATEX directive which will become mandatory as of the 1st July 2003. This directive changes the classification for the risk areas into categories and also changes the bias to prevent explosive atmospheres (EN 1127-1). The certification marking of Hochiki's DCD-1E-IS Heat Detector and SLR-E-IS Photolectric Smoke Detector is shown left with an explanation of each part.

1. Up to 20 INTRINSICALLY SAFE Detectors (SLR-E-IS or DCD-1E-IS)
2. Unlimited number of INTRINSICALLY SAFE Manual Call Points (CCP-E-IS) (always first on the zone)

EOL To ensure that the surface temperature of the resistor remains below that of the flash-point of the hazardous material present it is certified that the overall surface area must be greater than 230mm².

- LOOP
- SAFE AREA ZONE CIRCUIT
- HAZARDOUS AREA ZONE CIRCUIT
- AUXILIARY POWER 24Vd.c

SLR-E-IS

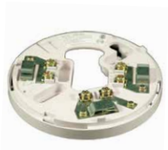
A **Conventional I.S. Photoelectric Smoke Detector** designed for use in hazardous areas. Incorporates a remote indicator output and a removable chamber for easy maintenance.

- High Performance Chamber
- Twin fire LEDs allow 360° viewing
- Supported by a range of barriers
- Remote indicator output
- IECEx 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 BASEEFA

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.

- Twin fire LEDs allow 360° viewing
- Electronics free mounting base
- Remote indicator output
- IECEx 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 BASEEFA



YBN-R/4 (IS)

A **Conventional Detector Mounting Base** associated with the Hochiki conventional range of Intrinsically Safe Detectors and is fully compatible with the majority of existing conventional fire alarm Control Panels.

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

IFD-E(IS)

Infra Red Intrinsically Safe Flame Detector Alloy Housing is an Intrinsically Safe IRĐ flame detector designed for use where open flaming fires may be expected and responds to the light emitted from flames during combustion. The detector discriminates between flames and other light sources by responding only to particular optical wavelengths and flame flicker frequencies. This enables the detector to avoid false alarms due to such factors as flickering sunlight. Ideal for the detection of flames from the burning of Aviation Fuels (kerosene), Butane, Grain & Feeds, Hydrogen, Paper, Natural Gas, Petrol (gasoline) etc.

- 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
- SIL capable

IFD-E(EXD)

Infra Red Flame Detector Alloy Flameproof Housing is an Explosion-Proof IRĐ flame detector designed for use where open flaming fires may be expected and responds to the light emitted from flames during combustion. The detector discriminates between flames and other light sources by responding only to particular optical wavelengths and flame flicker frequencies. This enables the detector to avoid false alarms due to such factors as flickering sunlight. Ideal for the detection of flames from the burning of Aviation Fuels (kerosene), Butane, Grain & Feeds, Hydrogen, Paper, Natural Gas, Petrol (gasoline) etc.

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

CCP-E-IS

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 2.5mm² solid conductor
- Approved to EN54 part 12
- Rugged design
- ATEX classification to II 1G EEx ia IIC T4

CCP-W-IS

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 2.5mm² solid conductor
- Approved to EN54 part 12
- Rugged design
- ATEX classification to II 1G EEx ia IIC T4

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, which are then fully monitored for open and short circuit. Also available as a DIN Rail mountable version. Both models feature an integral Short-Circuit Isolator.

- 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

CHQ-ISM

This **Sounder Control Module interfaces** between the Hochiki Analogue system via a CHQ-DSC or conventional sounder O/P's and the intrinsically safe sounder/beacon units via an intrinsically safe barrier. The module provides line monitoring for open or short circuits on the wiring connected to both the safe and hazardous areas.

- Provides dual sounder circuits
- Provides fault-monitored input
- Interfaces between loop and I.S. sounders/beacons
- Fully monitored for short-circuits
- Requires 24 Vdc external power supply
- Also available as a DIN module

Z728 ZENER BARRIER

Zener barriers provide cost saving Ex-protection for various applications in process automation systems. The amount of energy transferred to the hazardous location is limited to a safe level incapable of igniting the explosive atmosphere.

- 1-channel
- DC version, positive polarity
- Working voltage 26.5 V at 10 QA
- Series resistance max. 327 ff
- Fuse rating 50 mA
- DIN rail mounting

Z787 ZENER BARRIER

Zener barriers provide cost saving Ex-protection for various applications in process automation systems. The amount of energy transferred to the hazardous location is limited to a safe level incapable of igniting the explosive atmosphere.

- 2-channel
- DC version, positive polarity
- Working voltage 26.5 V at 10 QA
- Series resistance max. 327 ff
- Fuse rating 50 mA
- DIN rail mounting
- With diode return

KFD0-CS-EX2.51P ISOLATED BARRIER

This **Isolated Barrier** is used for intrinsic safety applications. It transfers DC signals from fire alarms, smoke alarms, and temperature sensors in hazardous areas. It can also be used to control I/P converters, power solenoids, LEDs, and audible alarms. Reverse polarity protection prevents damage to the isolator caused by faulty wiring. Since this isolator is loop powered, use the technical data to verify that proper voltage is available to the field devices.

- 2-channel isolated barrier
- 24 Vdc supply (Loop powered)
- Current input/output 0 mA ~ 40 mA
- I/P or transmitter power supply
- Accuracy 1%
- Reverse polarity protection
- Up to SIL2 acc. to IEC 61508

IS-A105N ALARM SOUNDER

The **IS-A105N** is a high output, 105dB(A) alarm sounder. Approvals include ATEX, IECEx and GOST-R for Zone 0 applications and FM approval for Class I Division 1 and Class I Zone 0 applications.
The IS-A105N is suitable for all intrinsically safe signalling applications including fire, security and process control.

- Input overload and reverse current protection
- Auto synchronised sound output
- Unit can be mounted using external lugs or internal BESA compatible fixing positions.
- Duplicate cable terminations (in & out for daisy-chain installations)
- Available with custom tone configurations and frequencies

IS-L101L INTRINSICALLY SAFE L.E.D BEACON

The **IS-L101L** unit is an intrinsically safe field mounting beacon which provides a bright flashing warning signal. The unit can be used independently or combined with an IS-A105N 49 alarm sounder. Combination units can utilise a common zener barrier or galvanic isolator and may be coupled together or mounted separately. With the IS-A105N the alarm accept function can be utilised. By closing a pair of external contacts (i.e push switch) the operator may silence the alarm for set periods between 5 seconds and 2 hours. If after the pre-set time the alarm condition still exists the sounder will activate again.

- Input overload and reverse current protection
- Prismatic lens optimises L.E.D effectiveness
- Approved to ATEX, IECEx

IS-mA1 IS-MINIALARM

The **IS-mA1** is a compact, 100dB(A) alarm sounder. Approvals include ATEX, IECEx and GOST-R for Zone 0 applications and FM approval for Class I Division 1 and Class I Zone 0 applications. The IS-mA1 is suitable for all intrinsically safe signalling applications including fire, security and process control. The IS-mA1M version is also available for Group I mining environments.

- Input overload and reverse current protection
- End of line resistor certified
- Auto synchronised sound output
- Available with custom tone configurations and frequencies.

IS-mB1 IS-MINIALITE

The **IS-mB1** is a compact beacon with an array of six high output L.E.D's. Approvals include ATEX, IECEx and GOST-R for Zone 0 applications and FM approval for Class I Division 1 and Class I Zone 0 applications. The IS-mB1 is suitable for all intrinsically safe signalling applications including fire, security and process control.

- Input overload and reverse current protection
- End of line resistor certified
- Prismatic lens optimises L.E.D effectiveness

IS-mC1 IS-MINIALERT

The **IS-mC1** is a compact combined 100dB(A) alarm sounder and L.E.D. beacon – only one Zener barrier or galvanic isolator required to run both sounder & beacon or alternatively the unit can be operated as individual signals. Approvals include ATEX, IECEx and GOST-R for Zone 0 applications and FM approval for Class I Division 1 and Class I Zone 0 applications.

- Input overload and reverse current protection
- End of line resistor certified
- Auto synchronised sound output
- Prismatic lens optimises L.E.D effectiveness
- Available with custom tone configurations and frequencies

ANCILLARY EQUIPMENT

DH-98-ASA AND DH-98-ASC

A **Duct Probe Housing** associated with analogue ALK-AS, ALK-ASN detectors and conventional SLV-AS, SLV-AS3 detector 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).

- Install quickly and easily
- No screens or filters to clean
- Rugged gray steel back box with clear cover

TC H-B100

A **Hand Held Address Programmer** designed to address the 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 9v battery which can provide up to 8000 operations. (Shown with sensor fitted – not supplied).

- Lightweight design
- Quick and reliable addressing
- Over 8000 address settings from one battery
- Displays sensor analogue value

16091

A **Hand Held Flame Detector Tester** providing a flame-free method of testing flame detectors

- Simple to use hand held unit with rechargeable NiCd battery pack and charger
- Tests many Flame Sensors Types UV, UV/IR, UV/IR^3, IR^3, IR^2, IR
- Range typically 3 and beyond
- Selectable optical output intensity with LED bar graph indication

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 SMBADAPTOR this enclosure can house any of the PCB assemblies from the Hochiki Smart-Fix module range.

- 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

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.

- 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

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 four Hochiki DIN Rail modules, side-by-side.

- 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 metric knock-outs
- Supplied with DIN Rail and fixings

SMB ADAPTOR PLATE

The **SMB-ADAPTOR** is a mounting plate designed to be fitted within the SMB-1 module enclosure to facilitate the mounting of the CHQ range of modules and 'mini' modules. The CHQ range of modules is fitted utilising the CHQ-ADAPTOR, an adaptor which allows the PCB assembly of the CHQ Module to be removed and mounted within enclosures. The 'mini' modules such as the CHQ-POM can be fitted directly to the SMB-ADAPTOR plate

- Provides multiple fixing options for the CHQ module range
- Easy to install within the SMB-1 enclosure
- Pre-drilled with correct fixing holes

CHQ-BAC KBOX

The **CHQ-BACKBOX** is designed for installations where the CHQ range of modules – CHQ-DIM(SCI), CHQ-SZM(SCI), CHQ-DZM(SCI), CHQ-DSC(SCI), CHQ-MRC(SCI), CHQ-DRC(SCI) and CHQ-PCM – require mounting within a glanded enclosure.

- Provides glanded cable connections
- Robust design
- Compatible with all CHQ Modules

CHQ-ADAPTOR

The **CHQ-ADAPTOR** is designed to allow the "Smart-Fix" range of CHQ Modules to be housed in existing enclosures originally designed for the first generation CHQ-OEM Modules by modifying the 'footprint' of the unit.

- Allows the PCB component of a CHQ Module to be housed in an enclosure
- Footprint matches older enclosure sizes

CHQ-BOX LID(WHT)

An alternative lid for the CHQ Range of modules, manufactured in solid white ABS this lid can replace the semi-transparent black lid which is supplied as standard with the module.

- Rugged design
- Provides alternative lid option to the complete range of CHQ Modules

SBB-1

A **Back Box** providing a splash proof and secure fixing for the Hochiki Analogue and conventional 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.

- 4 glanded cable entry holes (glands not supplied)
- Colour matched
- Approved sensor and base range
- Provides moisture and dust resistant fitting
- Ideal for bulk head fitting
- Marine use (MBB-1)

SI-CAP

A **Protective Cap** which can be fitted to the YBO-R/SCI isolator base range, the YBO-BS base sounder or the YBO-BSB base sounder beacon – when either of these devices isn't fitted with a sensor.

- Protects wiring terminals on isolator bases and base sounders
- Easy to fit

YBD-RA BASE MOUNTING ADAPTOR

The **YBD-RA Surface Wiring Adaptor** 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. The adaptor features four 9mm x 8mm knock-outs for cables/wires allowing surface-fixed wiring to be connected to an appropriate mounting base (depending on application). The adaptor is moulded in ivory white ABS as standard, which allows seamless integration with the majority of mounting bases and associated sensors and detectors.

- 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 16mm

IFD-MB ADJUSTABLE MOUNTING BRACKET

A steel wall mounting bracket specifically designed for the IFD Range of IRÐ detectors. Adjustable through horizontal and vertical planes.

- Robust design
- Fits all IFD detectors for wall mounting
- Allows horizontal and vertical adjustment

PRODUCT INDEX

ANALOGUE

Hochiki's Analogue 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 communication link to all products in the range.

CONVENTIONAL

Hochiki's Conventional 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 Vdc).

INTRINSICALLY SAFE & MARINE

For demanding environments, Hochiki has a range of industrial, intrinsically safe and explosion proof conventional products, as well as amarine product range that encompasses options to match both Analogue and Conventional products ranges.

WIRELESS

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

HOCHIKI®

HOCHIKI AUSTRALIA PTY LTD
Address: Block Y, Unit 1 Regents Park Estate, 391 Park Road, Regents Park NSW 2143
P +61 2 9738 5566
F +61 2 9743 7133
www.hochikiaustralia.com
E sales@hochikiaustralia.com

DISTRIBUTED BY

For NSW, ACT
Incite fire Pty Ltd
Block Y, Unit 1 Regents Park Estate, 391 Park Road, Regents Park NSW 2143
P 1300 INCITE (1300 462 483)
+61 2 9644 7144
F +61 2 9644 7255
E sales@incitefire.com.au

For VIC, TAS, SA, WA
Incite fire Pty Ltd
Unit 120 – 45 Gilby Road, Mt Waverley VIC 3149
P +61 3 9544 2211

F +61 3 9544 2212
E salesvic@incitefire.com.au

For QLD, NT
eFIRE Technologies Pty Ltd
25 Jeays Street, Bowen Hills QLD 4006
P +61 7 3252 5366

F +61 7 3252 4099
E sales@efiretechnologies.com.au

ISS2/OCT2015