FIRE DETECTION SYSTEMS

Your Safety. Our Technology.
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.

A LEVEL OF DETECTION THAT EVERYONE LOOKS UP TO

Hochiki Australia Pty Ltd reserves the right to alter the specification of its products from time to time without notice. Although every effort has been made to ensure the accuracy of the information contained in this document it is not warranted or represented by Hochiki Australia Pty Ltd to be a complete and up-to-date description.
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 benchmark for high-integrity and long-term reliability.

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.
## ANALOGUE SENSORS

<table>
<thead>
<tr>
<th>Year</th>
<th>Legacy Models</th>
<th>Current Models for Firenet, NFP, Phoenix Panels</th>
<th>Current Models for Syncro AS and Taktis Panels</th>
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<tbody>
<tr>
<td>1992</td>
<td>ALR-E</td>
<td>ALG-AS</td>
<td>ALK-ASN</td>
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### HEAT WATERPROOF

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### COLOUR

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### BASE

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### COMPATIBLE PANELS

<table>
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### CONVENTIONAL DETECTORS

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<th>Current Models for Sigma CP Panels</th>
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### ION

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### HEAT

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### BASE

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<th>Year</th>
<th>Legacy Models</th>
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<tbody>
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<td>1992</td>
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<td>YBN-R/4C</td>
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<td>2008</td>
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<td>YBO-R/6RN(WHT)</td>
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### COMPATIBLE PANELS

<table>
<thead>
<tr>
<th>Year</th>
<th>Legacy Models</th>
<th>Current Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>1992</td>
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<td>VARIOUS</td>
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<td>VARIOUS</td>
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<td>2000</td>
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<td>VARIOUS</td>
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</tbody>
</table>

Please see page 10 Syncro AS panel with Hochiki
Please see page 14 Taktis panel with Hochiki
Please see page 57 Panel compatible chart
Please see page 44 Sigma CP panel with Hochiki
Please see page 48 CONVENTIONAL DETECTORS AND DEVICES FOR SIGMA CP PANELS
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.

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

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**

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.

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.

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

**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 Hochki’s know how, false alarms caused by steam and others are prevented.
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.

Up to 64 Panels can be added to the network.

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.

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.

K555 Network card required

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.

Up to 64 Panels can be added to the network.
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.

### 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

### TECHNICAL

<table>
<thead>
<tr>
<th>Overall size (std)</th>
<th>385W x 520H x 110D (MM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finish</td>
<td>EPOXY POWDER COATED</td>
</tr>
<tr>
<td>Colour – lid &amp; box</td>
<td>BS 00 A 05 GREY – FINE TEXTURE</td>
</tr>
<tr>
<td>Colour – controls plate &amp; labels</td>
<td>RAL 7047 LIGHT GREY – SATIN</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>230V AC ±10%/–15%</td>
</tr>
<tr>
<td>Max supply fuse</td>
<td>16 AMP (F1.6A 250V)</td>
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<tr>
<td>Power supply rating imax a</td>
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<tr>
<td>Power supply rating imax b</td>
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<tr>
<td>Operating voltage</td>
<td>18 TO 30 VOLTS DC</td>
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<tr>
<td>Battery charging circuit impedance</td>
<td>1.5Ω</td>
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<tr>
<td>Min output current for correct operation load</td>
<td>150MA</td>
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<tr>
<td>Max ripple current</td>
<td>15 +/- 0.5V</td>
</tr>
<tr>
<td>Battery type</td>
<td>SEATED LEAD ACID</td>
</tr>
<tr>
<td>Battery charge voltage</td>
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</tr>
<tr>
<td>Max current draw from batteries</td>
<td>2A</td>
</tr>
<tr>
<td>Aux 24V output rating</td>
<td>20MA MAXIMUM LOAD (FUSED AT 50MA)</td>
</tr>
<tr>
<td>Sounder output rating (2 outputs)</td>
<td>EACH RATED AT 1A</td>
</tr>
<tr>
<td>Relay contacts</td>
<td>30VDC IA MAXI/IMI</td>
</tr>
<tr>
<td>Detection loop current</td>
<td>400MA</td>
</tr>
</tbody>
</table>

### 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

### CABINET FEATURES

- Standard or Deep cabinet options
- 16 zonal LED indicators
- 5 preconfigured 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

### SYNCRO AS OVERVIEW

### 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

- **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)
  - Max supply fuse 16 AMP (F1.6A 250V)
  - Power supply rating imax a 400MA
  - Power supply rating imax b 2.3A
  - Operating voltage 18 TO 30 VOLTS DC
  - Battery charging circuit impedance Rmax 1.5Ω
  - Min output current for correct operation load 150MA
  - Max ripple current 15 +/- 0.5V
  - Battery type SEATED LEAD ACID
  - Battery charge voltage 27.6 VDC NOMINAL (TEMPERATURE COMPENSATED) BATTERY
  - Max current draw from batteries 2A
  - Aux 24V output rating 20MA MAXIMUM LOAD (FUSED AT 50MA)
  - Sounder output rating (2 outputs) EACH RATED AT 1A
  - Relay contacts 30VDC IA MAXI/IMI
  - Detection loop current 400MA

### 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
**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 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

**TAKTIS VISION**

Configurer Fire Alarm Repeater 24 Vdc

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

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

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TAKTIS FIRE
ANALOGUE ADDRESSABLE 2-16 LOOP CONTROL PANELS

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 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 Gateway 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.

Compatable equipment & Extras

Selection of I/O Boards
Taktis Network Card
VR Taktis Media Gateway
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 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 VIRTUAL RESOURCE
A COMPREHENSIVE SUITE OF SOFTWARE BASED TOOLS

TAKTIS VR OVERVIEW

To complement the new, market leading range of control systems, Virtual Resource is a unique suite of 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.
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/S, YBO-BS, YBO-BSB, YBR-AS/SCI(WHT)-SCI
- Approved to AS7240.7

**ACA-ASN**
A Multi-Sensor incorporating a thermal element and a High Performance 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/S, YBO-BS, YBO-BSB, YBR-AS/SCI(WHT)-SCI
- Approved 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/S, YBO-BS, YBO-BSB, YBR-AS/SCI(WHT)-SCI
- AS7240.5 Classes A; B and C

**ALK-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 A; B and C

**YBN-R/3 (SC)**
Model YBN-R/3(SC) 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.

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

**YBO-R/SCI(RED)**
The YBO-R/SCI(RED) Base has been designed to be used with the red CHQ-WSB2 Wall Sounder, red CHQ-WB Wall 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-WSB2 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 dBA (±2 dBA) with low current consumption. Special bases available: YBO-R/3(SC)/RED, YBO-R/SCI(SC)/RED, YBO-R/SCI(WHT) and YBO-R/SCI(WHT-NSDR).

- Loop powered
- Single loop address
- Addressed via the TCH-B100 hand held programmer
- Variable sound output 90 – 102 dBA (±2 dBA) output at 1m
- Fitted 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(SC)/RED, YBO-R/SCI(SC)/RED, YBO-R/SCI(WHT) and YBO-R/SCI(WHT-NSDR).

- 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 17-14Vdc
**ANALOGUE SENSORS AND DEVICES FOR TAKTIS AND SYNCRO AS PANELS**

**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-B6**
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.

- 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 indicators
- 51 user-selectable tones (all tones AS7240.3 compatible)
- Approved to AST240.3

**YBO-BSB2**
An Addressable Loop-Powered Base Sounder Beacon providing 15 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.

- 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 AST240.23 - Category ‘O’
- Approved to AST240.3
- Operating voltage 17-41 Vdc
- Beacons and sounders can be controlled independently. Refer to page 32

**CHQ-CB**
An Addressable Loop-Powered Ceiling Beacon, with a high intensity LED and a custom designed fix-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-B6 or the YBO-R/3(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 AST240.23 - Category ‘C’
- Operating voltage 17-41 Vdc

**CHQ-POM**
A Powered Output Module designed to supply a nominal 24 Vdc at various current levels, 2 mA 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 Analogue 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
**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

**A Dual Relay Controller** designed to provide two general-purpose relay outputs. Each output can be controlled independently and used to control 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
- Two independently controlled changeover relays
- Relay contact rated at 30 Vdc at 1 amp
- Auxiliary monitored input
- DIN Rail version available
- Both models feature an integral Short-Circuit Isolator

**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 models feature an integral Short-Circuit Isolator
- Requires an auxiliary 24 Vdc supply
- DIN Rail version available
- Both models feature an integral Short-Circuit Isolator

**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

**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.

- Single loop address
- Supports two independent zones of conventional detectors
- Both models feature an integral Short-Circuit Isolator
- Requires an auxiliary 24 Vdc supply
- DIN Rail version available
- Both models feature an integral Short-Circuit Isolator

**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

**A Single Call Point Isolator** fully compatible with Hochiki’s Analogue Addressable protocol and featuring an integral Short-Circuit Isolator. 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)

**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

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

- Easy to fit
- Protects against accidental activation
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.

FIREwave™

Wireless Conventional Interface Module

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

Wireless Single Channel Input Module

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

- 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

Wireless Conventional Interface Module

A Wireless Conventional Interface 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.

- Contacts can be configured as N/O or N/C
- Selectable output – 12 Vdc or 24 Vdc
- Bi-directional wireless communication
- Self optimising wireless amplitude and frequency
- Automatic wireless channel hopping
- Fully intelligent
- High reliability and sensitivity
- Flexible on site device adjustment
- Makes additions to existing wired systems easy and cost effective
- Requires external power supply

Wireless Resettable Manual Call Point

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

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

RHD-EAS
A Wireless Intelligent Rate of Rise Heat Sensor with a thermostat sensing element. The sensor is fitted with a single omni-directional LED and a reed switch facility allowing testing using a magnet.

RMD-EAS
A Wireless Intelligent Multi Sensor with a patented smoke chamber and thermostat heat sensing element. The sensor is fitted with a single omni-directional LED and a reed switch facility allowing testing using a magnet.

RSM-WS-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 provides a flash rate/light output of 1 Hz/1 Cd and is available in white, RSM-WSB-AS(WHT).

RSM-BS-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-AS(WHT).

RSM-WSB/W-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 provides a flash rate/light output of 1 Hz/1 Cd and is available in white, RSM-WSB-AS(WHT).

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.
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
- Variable sensitivity
- Electronically addressed
- Compatible bases: YBN-R/2NA, YBO-RS, YBO-BSB, YBN-R/3(SCCI)
- Approved to AS7240.7

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-RS, YBO-BSB, YBN-R/3(SCCI)
- Approved to AS6031.1, AS6031.2

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 AS6031.1 Class A, B, C and D

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(SCCI), 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-8X10
- Choice of 2 LED colours (red and white)
- Approved to AS7240.23 – Category ‘C’
- High efficiency
- Selectable light output**
- Operating voltage 17-41 Vdc

NEW VISUAL ALARM DEVICES | 33

CHQ-CB/WL

Product Information

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<thead>
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<th>TYPE</th>
<th>BASE MODELS</th>
<th>LED-COLOUR</th>
<th>PRODUCT COLOUR</th>
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<tbody>
<tr>
<td>CHQ-CB/WL</td>
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<tr>
<td>CHQ-CB(WHT)/WL</td>
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<tr>
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<td>IVORY</td>
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<td>CHQ-CB(WHT)/WL/RL</td>
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<tr>
<td>CHQ-CB(RD)/WL/RL</td>
<td>RED</td>
<td>RED</td>
<td></td>
</tr>
</tbody>
</table>

*0.5Hz flash frequency white LED **Panel compatibility dependent
**NEW VISUAL ALARM DEVICES**

### 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(RD)/WL WHITE RED | CHQ-WB(RD)/WL RED IVORY | CHQ-WB(WHT)/RL RED WHITE | CHQ-WB(RD)/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) (±2 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) (±2 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 plus:
- Loop Powered
- Single Loop Address, addressed by either Control Panel or TCH-B100
- 0.5/1 Hz 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 Beacons | CHQ-WSB2/WL WHITE RED | CHQ-WSB2(WHT)/WL WHITE WHITE | CHQ-WSB2(RD)/WL RED RED | CHQ-WSB2(WHT)/RL RED WHITE |

**Panel compatibility dependent**

### CHOOSING YOUR VAD

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 AND CONVENTIONAL

<table>
<thead>
<tr>
<th>WHAT TYPE OF VAD?</th>
<th>WHICH CASE COLOUR</th>
<th>WHICH LED COLOUR</th>
<th>PRODUCT</th>
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<tbody>
<tr>
<td><strong>BASE SOUNDER BEACON</strong></td>
<td>IVORY CASE</td>
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<td>YBO-BSB2/WL</td>
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<td></td>
<td>RED LEDS</td>
<td>YBO-BSB2/RL</td>
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<td></td>
<td>WHITE CASE</td>
<td>WHITE LEDS</td>
<td>YBO-BSB2(WHT)/WL</td>
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<td>RED LEDS</td>
<td>YBO-BSB2(WHT)/RL</td>
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<td>WHITE LEDS</td>
<td>CHQ-WSB2/WL</td>
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<td>RED LEDS</td>
<td>CHQ-WSB2/RL</td>
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<td></td>
<td>WHITE CASE</td>
<td>WHITE LEDS</td>
<td>CHQ-WSB2(WHT)/WL</td>
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<tr>
<td></td>
<td></td>
<td>RED LEDS</td>
<td>CHQ-WSB2(WHT)/RL</td>
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<tr>
<td><strong>CEILING BEACON</strong></td>
<td>IVORY CASE</td>
<td>RED LEDS</td>
<td>CHQ-CB/RD</td>
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<td></td>
<td>WHITE LEDS</td>
<td>CHQ-CB(WHT)/WL</td>
</tr>
<tr>
<td></td>
<td><strong>WALL BEACON</strong></td>
<td>RED CASE</td>
<td>RED LEDS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WHITE LEDS</td>
<td>CHQ-WB(WHT)/WL</td>
</tr>
<tr>
<td>CONVENTIONAL</td>
<td>RED CASE</td>
<td>RED LEDS</td>
<td>CHQ-WB(RD)/WL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RED LEDS</td>
<td>CHQ-WB(RD)/RL</td>
</tr>
</tbody>
</table>

#### ANALOGUE

<table>
<thead>
<tr>
<th>WHAT TYPE OF VAD?</th>
<th>WHICH CASE COLOUR</th>
<th>WHICH LED COLOUR</th>
<th>PRODUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BASE SOUNDER BEACON</strong></td>
<td>IVORY CASE</td>
<td>WHITE LEDS</td>
<td>NO CWST-WW-S5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RED LEDS</td>
<td>YES CWST-WW-W5</td>
</tr>
<tr>
<td></td>
<td><strong>WALL SOUNDER BEACON</strong></td>
<td>RED CASE</td>
<td>RED LEDS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WHITE LEDS</td>
<td>YES CWST-WR-W5</td>
</tr>
<tr>
<td><strong>CEILING BEACON</strong></td>
<td>IVORY CASE</td>
<td>RED LEDS</td>
<td>NO CWST-RR-S5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WHITE LEDS</td>
<td>YES CWST-RR-W5</td>
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#### CONVENTIONAL

<table>
<thead>
<tr>
<th>WHAT TYPE OF VAD?</th>
<th>WHICH CASE COLOUR</th>
<th>WHICH LED COLOUR</th>
<th>IP65</th>
<th>PRODUCT</th>
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</thead>
<tbody>
<tr>
<td><strong>CONVENTIONAL BEACON</strong></td>
<td>WHITE CASE</td>
<td>WHITE LEDS</td>
<td>NO</td>
<td>CWST-WW-S5</td>
</tr>
<tr>
<td></td>
<td>RED LEDS</td>
<td>NO</td>
<td>CWST-WW-S5</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>RED CASE</strong></td>
<td>RED LEDS</td>
<td>NO</td>
<td>CWST-RR-S5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RED LEDS</td>
<td>YES</td>
<td>CWST-RR-W5</td>
</tr>
</tbody>
</table>

### NEW VISUAL ALARM DEVICES
TECHNOLOGY GUIDE

AUDIO AND VISUAL PRODUCTS

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:

<table>
<thead>
<tr>
<th>Finish Type</th>
<th>Description</th>
<th>Loss of Decibels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard Finishes</td>
<td>Solid stone or brick walls, Solid ceilings, Stone or tiled flooring</td>
<td>LOSE 0 dB(A)</td>
</tr>
<tr>
<td>Medium Finishes</td>
<td>Acoustic ceiling tiles, Plastered walls, 5% Soft coverings, Composite flooring (eg. Laminate)</td>
<td>LOSE 8 dB(A)</td>
</tr>
<tr>
<td>Soft Finishes</td>
<td>Acoustic ceiling tiles, Plastered walls, 5% Soft coverings, Carpeted flooring</td>
<td>LOSE 9 dB(A)</td>
</tr>
</tbody>
</table>

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.
**LOSER OF DECIBELS – OTHER CONSIDERATIONS**

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

**LOSS OF DECIBELS – OVER DISTANCE**

This table shows the decrease in Sounder volume over distance.

<table>
<thead>
<tr>
<th>M</th>
<th>dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>65</td>
</tr>
<tr>
<td>2</td>
<td>64</td>
</tr>
<tr>
<td>3</td>
<td>62</td>
</tr>
<tr>
<td>5</td>
<td>56</td>
</tr>
<tr>
<td>10</td>
<td>45</td>
</tr>
<tr>
<td>20</td>
<td>39</td>
</tr>
<tr>
<td>30</td>
<td>35</td>
</tr>
<tr>
<td>50</td>
<td>40</td>
</tr>
<tr>
<td>100</td>
<td>39</td>
</tr>
<tr>
<td>200</td>
<td>39</td>
</tr>
<tr>
<td>500</td>
<td>38</td>
</tr>
<tr>
<td>1000</td>
<td>38</td>
</tr>
<tr>
<td>2000</td>
<td>38</td>
</tr>
</tbody>
</table>

This loss can be calculated with the following formula:

\[
X_{\text{dB(A)}} @ Y \text{ METRES} = (X - 6)_{\text{dB(A)}} @ 2Y \text{ METRES}
\]

For example:

\[
100_{\text{dB(A)}} @ 1 \text{ metre} = (100-6)_{\text{dB(A)}} @ 2 \text{ metres} \\
\cdot 100_{\text{dB(A)}} @ 1 \text{ metre} = 94_{\text{dB(A)}} @ 2 \text{ metres}
\]

**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:

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.

**CHQ ‘SMART FIX’ MODULES**

**CHQ BACKBOX**

Provides 10 glanded cable entry knockouts (glands not included) and increases the IP rating of the module from IP21 to IP65.

**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.

Lid also available in white (CHQ-LID(WHT))

**CHQ D-Rail Version**

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 ‘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.
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 monitoring or as a general purpose input. The input and both sounder outputs only need the allocation of one ESP loop address.

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 switches 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.

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.

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 systems. The unit provides an auxiliary output for local alarm indication.

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 AXS 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.

CHQ-QZM2 DUAL ZONE MODULE

The CHQ-QZM2 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

30 x Conventional Detectors

3 x Conventional Beam Detectors

INPUT/OUTPUT

AUXILIARY POWER 24Vdc

LOOP CABLES

ZONE 1

ZONE 2
HIGH PERFORMANCE CHAMBER TECHNOLOGY

Typically photoelectric smoke sensors/detectors have been more sensitive to smoke emitted by smouldering fires and less sensitive 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:

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.

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.

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-AS5) 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.

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.
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.

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 are wired 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.

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

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

TECHNICAL

<table>
<thead>
<tr>
<th>Construction</th>
<th>1.2MM MILD SHEET STEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finish</td>
<td>EPOXY POWDER COATED</td>
</tr>
<tr>
<td>Colour – lid &amp; box</td>
<td>BS 00 A 05 GREY - FINE TEXTURE</td>
</tr>
<tr>
<td>Colour – controls</td>
<td>RAL 7047 LIGHT GREY – SATIN</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>230V AC +10%/-15% (100 WATTS MAXIMUM)</td>
</tr>
<tr>
<td>Mains supply fuse</td>
<td>1.6 AMP (F1.6A L250V)</td>
</tr>
<tr>
<td>Power supply DC rating</td>
<td>24V 3AMP</td>
</tr>
<tr>
<td>Maximum battery size</td>
<td>7AH 12V (2 PER PANEL)</td>
</tr>
<tr>
<td>Fault contact rating</td>
<td>30V DC 1 AMP</td>
</tr>
<tr>
<td>Local fire contact rating</td>
<td>30V DC 1 AMP</td>
</tr>
<tr>
<td>Fire contact rating</td>
<td>30V DC 1 AMP</td>
</tr>
<tr>
<td>Sounder output rating</td>
<td>0.5A PER OUTPUT (MAX. 1.6A OVER ALL OUTPUTS)</td>
</tr>
<tr>
<td>Sounder circuit EOL</td>
<td>10K 5%</td>
</tr>
<tr>
<td>Detection zone current</td>
<td>1.6 MA</td>
</tr>
<tr>
<td>Detection zone EOL resistor</td>
<td>6K8 5%</td>
</tr>
<tr>
<td>Cable capacity</td>
<td>2.5MM² PER TERMINAL</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-5°C TO +40°C</td>
</tr>
<tr>
<td>Operating humidity</td>
<td>&lt;95% (NON CONDENSING)</td>
</tr>
<tr>
<td>M2 cabinet dimensions</td>
<td>385W X 310H X 90D</td>
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<tr>
<td>M3 cabinet dimensions</td>
<td>385W X 520H X 110D</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP30</td>
</tr>
</tbody>
</table>

Control Panel is manufactured by Hochiki Group Company, Kentec Electronics Ltd. and distributed by Incite fire Pty Ltd.
SIGMA XT PANEL WITH HOCHIKI

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 IS barriers.
- Resettable extinguishant release switch.
- Extract fan control.
- Non-latching zone input option.
- Disable extinguishant sub system.
- Activate extract fan output.
- Activate alarm delays.

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

TECHNICAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>1.2MM MILD SHEET STEEL</td>
</tr>
<tr>
<td>Finish</td>
<td>EPOXY POWDER COATED</td>
</tr>
<tr>
<td>Colour – lid &amp; box</td>
<td>BS 00 A 05 GREY - FINE TEXTURE</td>
</tr>
<tr>
<td>Colour – controls plate &amp; labels</td>
<td>RAL 7047 LIGHT GREY - SATIN</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>220V AC +10%/-15% (100 WATTS MAX)</td>
</tr>
<tr>
<td>Main supply fuse</td>
<td>1.6 AMP (116A 250V)</td>
</tr>
<tr>
<td>Power supply DC rating</td>
<td>3 AMPS TOTAL INCL. BATTERY CHARGE 28V +/- 2V</td>
</tr>
<tr>
<td>Maximum battery size</td>
<td>7AH 12V (2 PER PANEL)</td>
</tr>
<tr>
<td>Fault contact rating</td>
<td>32V DC 1 AMP</td>
</tr>
<tr>
<td>Local fire contact rating</td>
<td>32V DC 1 AMP</td>
</tr>
<tr>
<td>Fine fire contact rating</td>
<td>32V DC 1 AMP</td>
</tr>
<tr>
<td>Sounder output rating</td>
<td>0.5A PER OUTPUT (MAX 1.6A OVER ALL OUTPUTS)</td>
</tr>
<tr>
<td>Sounder circuit EOL</td>
<td>10K 5%</td>
</tr>
<tr>
<td>Detection zone current</td>
<td>1.6 MA</td>
</tr>
<tr>
<td>Detection zone EOL resistor</td>
<td>6K8 5%</td>
</tr>
<tr>
<td>Monitored input EOL resistor</td>
<td>6K8 5%</td>
</tr>
<tr>
<td>Extinguishant output EOL</td>
<td>IN4004 DIODE</td>
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<tr>
<td>Extinguishant release delay</td>
<td>0-60 SECS</td>
</tr>
<tr>
<td>Status unit / Warning sign connection</td>
<td>RS485</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP30</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CLASS</th>
<th>TYPICAL* APPLICATION TEMPERATURE</th>
<th>MAXIMUM APPLICATION TEMPERATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>25°C</td>
<td>50°C</td>
</tr>
<tr>
<td>B</td>
<td>40°C</td>
<td>65°C</td>
</tr>
<tr>
<td>C</td>
<td>55°C</td>
<td>80°C</td>
</tr>
<tr>
<td>D</td>
<td>70°C</td>
<td>95°C</td>
</tr>
</tbody>
</table>

*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

YBS-R/6A
For use with compatible 2-Wire systems.

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

YBS-R/6NH
A non-latching Relay version of the standard base (YBN-R/6).
CONVENTIONAL DETECTORS AND DEVICES FOR SIGMA CP PANELS

**DFJ-A3**
- Model DFJ-A3 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-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.

**SLV-A3**
- The SLV-A3 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.

**DCD-C3**
- Model DCD-C3 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-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.

**YBNR/S**
- A Model YBNR/S is a Conventional Detector Mounting Base associated with the NEW Sigma CP series range of 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.

**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.

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

**YBN-R/6**
- A Model YBN-R/6 is a Conventional Detector Mounting Base with minimal standby current and high reliability. Particularly suited to environments, which are exposed to high levels of condensation or are hosed down.

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

**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.

**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.

**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.

**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)).

**BANSHEE EXCEL (BE-SSB)**
An Electronic Conventional Sounder which can be installed internally.

**BANSHEE EXCEL LITE (BEL-SSB)**
An Electronic Conventional Sounder which can be installed internally.

**BANSHEE EXCEL IP66 (BE-SDB)**
An Electronic Conventional Sounder comes with a deeper IP66 back box, which enables the unit to be installed externally.

**BANSHEE EXCEL LITE IP66 (BEL-SDB)**
An Electronic Conventional Sounder comes with a deeper IP66 back box, which enables the unit to be installed externally.
**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.

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

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

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

**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 SR-BACKBOX if surface mounted (sold separately).

**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).

**CONVENTIONAL DETECTORS AND DEVICES FOR SIGMA CP PANELS**

- **DFJ-60B**
  - Supports a ‘Frangible Glass’ element
  - Terminals can accommodate up to a 2.5mm² solid conductor
  - Approved to EN54
  - Rugged design

- **DFJ-90D**
  - Supports a ‘Frangible Glass’ element
  - Terminals can accommodate up to a 2.5mm² solid conductor
  - Approved to EN54
  - Rugged design

- **CCP-E**
  - Supports a ‘Frangible Glass’ element
  - Terminals can accommodate up to a 2.5mm² solid conductor
  - Approved to EN54
  - Rugged design

- **CCP-W**
  - Supports a ‘Frangible Glass’ element
  - Terminals can accommodate up to a 2.5mm² solid conductor
  - Approved to EN54
  - Rugged design

- **SLV-AS**
  - 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

- **DFJ-60B**
  - 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-90D**
  - 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**
  - 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-90D**
  - 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
### HOCHIKI CONVENTIONAL DETECTORS

Panel Compatibility Chart

(MAXIMUM NUMBER OF DEVICES ALLOWED PER AZF)

<table>
<thead>
<tr>
<th>MANUFACTURER</th>
<th>PANEL MODEL NUMBER</th>
<th>DETECTOR</th>
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<tr>
<td>AMPAC</td>
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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.

**YBO-R/SCIM**
- 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

**ALG-DM**
- 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

**ACB-EM**
- 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

**DRD-EM**
- 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 I 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**
- 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

**CHQ-QSC/M (SCI)**
- Marine Approved Analogue Addressable Dual Sounder Controller, which has been designed to provide two sounder outputs (both 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 independently controlled changeover relays
- Relay contacts rated at 30 Vdc at 1 amp
- Auxiliary monitored input
- Features an integral Short-Circuit Isolator
- Approved to MED by GL

**CHQ-SZM/M (SCI)**
- 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
- Single loop address
- Up to 6 conventional detectors
- Remote LED output
- Fully monitored for short and open circuit faults
- Features an integral Short-Circuit Isolator
- Approved to MED by GL
MARINE FIRE DETECTION

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-EM)
- 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-A3M
A Marine Approved Conventional Rate of Rise Heat Detector incorporating a 100°C fixed temperature element. The thermometer 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-E3M
A Marine Approved Conventional Rate of Rise Heat Detector incorporating a 60°C fixed temperature element. The thermometer 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 RV/EM
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 consumption and high SPL in a robust fire retardant IP66 housing ensure the A105N 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.

A122N ALARM SOUNDER
The A122N is a high output, 119dB(A) alarm sounder. High SPL in a robust fire retardant IP66 housing ensure the A122N 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.

BEXS10/BEXS210 ALARM SOUNDERS
The flameproof BEXS10 alarm sounders are suitable for Zone 1 & Zone 2 applications and the BEXS210 sounders also for Zone 21 & 22. Sound level outputs 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, providing a splash proof and secure fixing positions. The flameproof sounders are available as kit units with fixed bases for surface mounting or as version only (BEXS10) or version only (BEXS210) for connection to a multi-sounder system.

- Automatic synchronisation on multi-sounder system.
- Very large termination area.
- Ratchet adjustable stainless steel U’ bracket.
- IN & OUT terminals (Ex de version only).
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).

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 Photoelectric Smoke Detector is shown left with an explanation of each part.

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.

KDOI CS-EX2 SIP 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.
INTRINSICALLY SAFE FIRE DETECTION

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

**DCD-1EIS**
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.

**YBNR/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.

**IFD-EIS**
Infra Red Intrinsically Safe Flame Detector Alloy Housing is an Explosion-Proof IRD 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.

**ZT728 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.

**CCF-EIS**
A Conventional Manual Call Point designed for use in hazardous areas and based upon the industry standard KAC world series housing.

**CCP-W1S**
A Conventional Manual Call Point designed for use in hazardous areas and based upon the industry standard KAC world series housing.

**CCP-W1S (SCU)+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.

**CCQ-DSM (SCU)+IS**
A Zone Isolator 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 short-circuit. Also available as a DIN Rail mountable version. Both models feature an integral Short-Circuit Isolator.

**CCQ-CSM**
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.

**CCP-W1S**
A Conventional Manual Call Point designed for use in hazardous areas and based upon the industry standard KAC world series housing.

**CCP-W1S (SCU)+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.

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A Zone Isolator 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 short-circuit. Also available as a DIN Rail mountable version. Both models feature an integral Short-Circuit Isolator.

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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.

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A Conventional Manual Call Point designed for use in hazardous areas and based upon the industry standard KAC world series housing.

**CCP-W1S (SCU)+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.

**CCQ-DSM (SCU)+IS**
A Zone Isolator 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 short-circuit. Also available as a DIN Rail mountable version. Both models feature an integral Short-Circuit Isolator.

**CCQ-CSM**
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.

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**ZTB-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 Ω
- Fuse rating 50 mA
- DIN rail mounting
- With diode return

**KFG-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

**Z787 ZENER BARRIER**

Zener barriers provide cost saving Ex-protection for various 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
- DC version, positive polarity
- Working voltage 26.5 V at 10 Qa
- Series resistance max. 327 Ω
- Fuse rating 50 mA
- DIN rail mounting
- With diode return

**IS-A05N ALARM SOUNDER**

This IS-A05N 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-A05N 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-A05N 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-A05N 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.Ds. 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
- Prismatic lens optimises L.E.D effectiveness
- Available with custom tone configurations and frequencies

**IS-mCT IS-MINALERT**

The IS-mCT 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
- Auto synchronised sound output
- Prismatic lens optimises L.E.D effectiveness
- Available with custom tone configurations and frequencies
ANCILLARY EQUIPMENT

DH-98ASA AND DH-98ASC
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).

SMB-1
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.

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

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.

SMB ADAPTOR PLATE
The SMB ADAPTOR PLATE 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-POF can be fitted directly to the SMB ADAPTOR plate.

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.

CHQ-BACKBOX
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.

CHQ-BACKBOX LID
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.

TCHB100
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 6000 operations. (Shown with sensor fitted - not supplied).

TC16091
A Hand Held Flame Detector Tester providing a flame-free method of testing flame detectors.

TC B-POF
A Hand Held Flame Detector Tester providing a flame-free method of testing flame detectors.

• 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

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

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

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

• Provides alternative lid option to the complete range of CHQ Modules

• Simple to use hand held unit with rechargeable NICD battery pack and charger
• Tests many Flame Sensor Types UV, UV/IR, UV/IR3, IR, IR3, IR
• Range typically 3 and beyond
• Selectable optical output intensity with LED bar graph indication

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

• 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
ANCILLARY EQUIPMENT

IFD-MB ADJUSTABLE MOUNTING BRACKET

A steel wall mounting bracket specifically designed for the IFD Range of IR³ detectors. Adjustable through horizontal and vertical planes.

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

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 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 bases ranges
- 4 pre-moulded knock-outs provide wiring entry
- Lube profile - only 10mm

SKCAP

A Protective Cap which can be fitted to the YBO-RI/SCI isolator 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

ANCILLARY EQUIPMENT

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.

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

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 (3.5 - 30 Vdc).

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.