Syncro ASM analogue addressable fire control panel, available in either one or two detection loops.

**Based on the popular Syncro AS single and two loop analogue addressable fire control panel, the Syncro ASM is certified with a host of classification societies and is Marine Equipment Directive approved.**

Suitable for all small to medium sized vessels, it is compatible with marine approved devices manufactured by Apollo Fire Detectors and Hochiki. Syncro ASM provides a cost effective and scalable solution for all marine fire alarm systems.

Up to 64 Syncro ASM control panels may be networked to provide integrated control and indication of over 16000 fire alarm points.

The optional Voyage Data Recorder interface outputs standard NMEA 0183 protocol and can be fitted inside any control panel on the network.

With its large graphical display and ergonomic button and indicator layout, the Syncro ASM control panel is simple to understand for installers, commissioning engineers and end users alike.

**Product overview:**

- **Flexibility**
  Using leading edge microprocessors, its electronics provide a flexible control system with high reliability and integrity.

- **Zone Indicators**
  500 zones displayed on the screen with the first 16 zones shown by the indicator lights.

- **Connectivity**
  Syncro ASM connects seamlessly to other Syncro ASM, or Syncro ASM multi-loop panels and repeaters via the fully fault tolerant and robust Syncro ASM network.

- **Power Supply**
  An integral 3 Amp power supply and temperature compensated battery charger provides ample power for the two 1Amp rated standard sounder outputs, loop powered sounders and other devices.

- **Ease of Use**
  With its large graphical display and ergonomic button and indicator layout.

- **Easy to Install**
  The elegant and simple construction enables the chassis to be completely dismantled by just removing two screws.

**Main features:**

- Expandable from 1 to 2 loops
- Network up to 64 panels
- 2 programmable sounder circuits
- 5 programmable inputs
- 3 programmable relays
- 3A power supply
- Powerful cause and effects
- Sensitivity adjustment and Drift Compensation
- Compatible with View Marine repeaters
- Supports Apollo and Hochiki protocols
- Stores 500 last events in event log
- Different language and character set variants available
- Approved and certified to EN54-2/EN54-4.
Syncro View Marine repeat panel c/w enable key switch

The Syncro View Marine fire alarm annunciator provides a simple and convenient method of extending the controls and indications of the Syncro ASM fire alarm control panel to other locations.

The large, graphic liquid crystal display and high brightness LED indicators duplicate the indications on the Syncro ASM fire alarm control panel at up to 15 additional locations via a simple, two-wire serial data connection.

The Syncro View Marine is available in either a 24V DC powered option (which can be powered via an additional 2 cores from the Syncro ASM control panel, a maximum of 4 View Marine repeater panels in this combination) or up to 15 View Marine repeater panels if powered local from an ancillary 24V DC supply or a 230V powered option with local battery back up.

Syncro View Marine is housed in a small enclosure which is styled similarly to the Syncro ASM control panel and is ideal for installations where a large fire control panel would be detrimental to décor or where space is at a premium such as the Control Bridge or Helm.

Up to 15 Syncro View Marine annunciators can be connected to each control panel on the Syncro ASM network making View Marine ideal where multiple points of indication and/or control are required in such places as engine rooms, staff quarters, living spaces or control areas.

Main features:

- Up to 15 annunciators can be connected to each Syncro ASM fire control panel
- Large liquid crystal display (240 x 64 pixels)
- High brightness LED indications
- Internal sounder
- Replicates all Syncro ASM panel controls
- Simple, two-wire serial connection
- Small, Syncro style enclosure
- Removable electronics for easy installation
K545 4 Way Conventional Detection Zone Module

To further enhance the versatility of the Syncro ASM fire alarm system, four conventional detection circuits can be connected with up to 30 detectors per circuit.

Conventional control panels can be replaced with this simple module and existing conventional systems can be interfaced directly to modern analogue addressable control systems and networks.

A fail safe mode ensures that the detection inputs will still operate the sounder outputs and fire contact if communication to the panel is lost.

Up to 32 of these boards can be connected to the dedicated RS485 communications bus in the control panel giving the capability of up to 128 conventional zones with 64 sounder outputs.

The detection zone boards may be mixed on the RS485 bus with 16 channel I/O Boards, 6 way sounder boards or 8 way relay boards to provide a very flexible system of I/O to satisfy any requirement.

All inputs and outputs are configurable in the same way as devices connected to the loops and all may be acted upon by cause and effect logic.

Standard Syncro control panels contain fixings for one (four way) Detection Zone board, Sounder board, Relay board or I/O board, all of which can easily be connected using four signal wires to the power and comms bus within the panel.

Consideration must be taken as to the loading on the main panel.

Features:
- 4 monitored detection zone inputs
- 2 monitored sounder outputs
- Volt free fire contact
- Volt free fault contact
- Local power supply fault input
- RS485 comms connection to Syncro Fire Alarm Panel
- Individual fault and operated indications for inputs and outputs
- Directly replaces a conventional control panel when integrating into an analogue addressable system
- Can be used with other Syncro I/O modules on the same panel
- Compatible with Syncro ASM panels

03903
S737
Syncro ASM VDR

The S737 Voyage Data Recorder (VDR) interface circuit board is installed in close proximity to the Syncro AS Marine fire control panel. It is powered from the panel's Auxiliary 24volt supply output.

When any fire, faults, disablement or panel control operations take place, their details are passed to the VDR equipment over a RS485 2 core shielded cable connection.

The VDR interface uses NMEA 0183 standard message format. The messages will include detection device address, zone and event type, up to 82 characters total.

The Syncro AS Marine panel does not monitor the link to the VDR, but sends a “heartbeat” message at 30 second intervals. This heartbeat message allows the VDR system to monitor and report any failures in the data connection.

Consideration must be taken as to the loading on the main panel.

Features:
- NMEA 0183 message format
- RS485 data connection to VDR
- Heartbeat sent every 30 seconds
- Small board profile
- Panel powered
- Low current consumption

03905
K545
K545 4 Way Conventional Detection Zone Module

The Syncro ASM VDR
To further enhance the versatility of the Syncro ASM fire alarm system, additional sounder output capability can be added using Sounder Boards.

These boards have 6 monitored sounder outputs, each of which can be individually programmed.

In addition to the sounder outputs each board has two general purpose, opto-isolated inputs and two volt-free changeover contact outputs.

Up to 32 of these boards can be connected to the dedicated RS485 communications bus in the control panel giving the capability of 192 additional sounder outputs with 64 general purpose inputs and 64 general purpose outputs.

The sounder boards may be mixed on the RS485 bus with 16 channel I/O boards, 8 way sounder boards or 4 way conventional detection zone boards to provide a very flexible system of I/O to satisfy any requirement.

Features:
- 6 individually fused and monitored sounder outputs
- Fault and operated indications
- 2 opto-isolated general purpose inputs
- 2 volt free contact general purpose outputs
- Remote connection to panel via RS485 serial bus
- Common footprint to other Syncro I/O board types
- All outputs and inputs programmable for cause and effects
- Can be used with other Syncro I/O modules on the same panel

To further enhance the versatility of the Syncro ASM fire alarm system, additional relay output capability can be added using Relay Boards.

These boards have 8 voltage free changeover relay contacts, each of which can be individually programmed.

Up to 32 of these boards can be connected to the dedicated RS485 communications bus in the control panel giving the capability of up to 256 additional relay outputs.

The relay boards may be mixed on the RS485 bus with 16 channel I/O boards, 6 way sounder boards or 4 way conventional detection zone boards to provide a very flexible system of I/O to satisfy any requirement.

All outputs are configurable in the same way as devices connected to the loops and all may be acted upon by cause and effect logic.

These boards are typically used in applications which require more than the four standard relay outputs such as signalling to other systems or plant control.

Standard Syncro control panels contain fixings for one sounder, relay, conventional detection or I/O board, which can easily be connected using four small signal wires to the power and comms bus within the panel.

Consideration must be taken as to the loading on the main panel.

Features:
- 8 volt free changeover relay contacts (1Amp 30V DC)
- Relay operated indications
- Remote connection to panel via RS485 serial bus
- Common footprint to other Syncro I/O board types
- All outputs programmable for cause and effects
- Can be used with other Syncro I/O modules on the same panel
- Compatible with Syncro ASM panels
The flexibility of the Syncro system can be further enhanced by connecting control panels and repeaters together using a high integrity network.

A simple 2-wire connection between each panel allows events to be transmitted to other parts of the system to provide indication or control on a system wide basis.

Using the Loop Explorer configuration programme, up to 64 nodes can be programmed to respond in a variety of ways to any system events as required.

This flexibility extends the comprehensive cause and effect programming capability of Syncro control panels to the entire network allowing actions, test modes or disablements to be started from any point.

The fault tolerance of the network is such that any single open or short circuit fault will not result in any loss of information. Multiple faults are isolated and the network breaks into smaller networks which continue to work autonomously.

Features:
- Up to 64 nodes
- High integrity protocol
- Fully secure against short or open circuit faults
- Simple 2-wire loop connection
- Supports open ended networks for retrofit applications
- Repeater share network connection
- Network wide test and disablement functions
- Network wide cause and effect logic
- Flexible configuration options
- Apollo & Hochiki panels supported on single network

To add more I/O capability to the extensive options already offered by the Syncro ASM control panels, up to thirty two, sixteen channel I/O boards may be connected.

The 16 channel boards may be mixed on the RS485 bus with 8 way relay boards, 6 way sounder boards or 4 way conventional detection zone boards to provide a very flexible system of I/O to satisfy any requirement.

When using a simple two wire RS485 communications protocol, these boards may be mounted locally to the control panel or distributed on a bus up to 1200 metres long by using a suitable cable.

The flexibility of these boards is further enhanced by the fact that each of the channels is configurable as either an input or output. Each channel may also be configured to produce a variety of input actions or respond to a variety of output types.

All channels can contribute to, or respond to, system wide cause and effects logic.

Typical uses for I/O boards include geographical LED mimic displays and plant alarm inputs.

Standard Syncro control panels contain fixings for one sounder, relay, conventional detection or I/O board, which can easily be connected using four small signal wires to the power and comms bus within the panel.

Consideration must be taken as to the loading on the main panel.

Features:
- 16 channels
- Each channel configurable as input or output
- Inputs opto-isolated
- Outputs open collector transistor
- Simple 2 wire connection to control panel
- Up to 32 boards supported per panel (512 Input/Output Channels)
- Inputs and outputs configurable as per field devices
- Full cause and effects on all inputs and outputs
- Multi drop RS485 communications
- Can be used with other Syncro I/O modules on the same panel
- Compatible with Syncro ASM panels
Accessories

03910
S187
S187 Standard Download Lead

A Panel-to-Laptop Upload/Download Lead for the Kentec Syncro ASM panels.

03911
U187
U187 USB to RS232 Serial Converter

A USB-to-RS232 Serial Converter for software download lead.
Detectors

A Marine Approved Intelligent Photoelectric Smoke Sensor incorporating Hochiki’s newest High Performance Chamber Technology removing the need to use Ionisation Smoke Sensors in the majority of applications.

This also allows the sensor threshold level to be increased, thereby improving the signal to noise ratio and reducing susceptibility to false alarms.

The ALN-ENM smoke chamber is easily removed or replaced for cleaning and utilises a unique improved baffle design which allows smoke to enter the chamber whilst keeping out ambient light.

Features:
- 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 (please ensure control panel compatibility)
- Addressed via TCH-B200 Hand Held Programmer
- Approved to MED, DNV, IEC 60092-504 requirements
- DNV-GL Module B (Type Examination)
- DNV-GL Module E (Product Quality Assurance)

02303
ALN-ENM
Marine Approved Photoelectric Smoke Sensor, white

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

The sensor polling LEDs can be controlled via the Control Panel (pulsing/non-pulsing). The smoke chamber can easily be removed or replaced for easy maintenance.

Features:
- User selectable modes
- Incorporates Optical & Heat elements
- Removable, High Performance Chamber
- Twin fire LEDs allow 360° viewing
- Pulsing/non-pulsing controlled from panel (please ensure control panel compatibility)
- Variable sensitivity
- Addressed via TCH-B200 Hand Held Programmer
- Approved to MED, DNV, IEC 60092-504 requirements
- DNV-GL Module B (Type Examination)
- DNV-GL Module E (Product Quality Assurance)

02304
ACC-ENM
Marine-Approved Multi-Sensor Photoelectric Smoke/Heat

An Intelligent Multi Heat Sensor incorporating a variable Temperature heat element and a Rate of Rise heat element, both of which are controlled from the Control Panel, allowing either thermal element or both elements simultaneously to be active in making the fire decision.

The sensor polling LEDs can also be controlled via the Control Panel (pulsing/non-pulsing).

Features:
- User selectable modes
- Incorporates Fixed Temperature and Rate of Rise Heat elements
- Twin fire LEDs allow 360° viewing
- Pulsing/non-pulsing controlled from panel (please ensure control panel compatibility)
- Addressed via TCH-B200 Hand Held Programmer
- LPCB & VdS approved to Classes A, B & C
- Approved to MED, DNV, IEC 60092-504 requirements
- DNV-GL Module B (Type Examination)
- DNV-GL Module E (Product Quality Assurance)

02305
ATJ-ENM
Marine Approved Multi-Heat Sensor

ATJ-ENMACC-ENM
Marine Approved Photoelectric Smoke Sensor, white

ALN-ENM
A Marine Approved Intelligent Photoelectric Smoke Sensor incorporating Hochiki’s newest High Performance Chamber Technology removing the need to use Ionisation Smoke Sensors in the majority of applications.

This also allows the sensor threshold level to be increased, thereby improving the signal to noise ratio and reducing susceptibility to false alarms.

The ALN-ENM smoke chamber is easily removed or replaced for cleaning and utilises a unique improved baffle design which allows smoke to enter the chamber whilst keeping out ambient light.

Features:
- 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 (please ensure control panel compatibility)
- Addressed via TCH-B200 Hand Held Programmer
- Approved to MED, DNV, IEC 60092-504 requirements
- DNV-GL Module B (Type Examination)
- DNV-GL Module E (Product Quality Assurance)
**02306**

YBN-R/3M

Marine Approved Sensor Mounting Base

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**02307**

YBN-R/3(SCI)M

Marine Approved Short Circuit Isolator Base

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**Features:**
- Detects short circuits on loop
- Status LED
- Connection of up to 127 per loop
- Supports ESP Marine Approved Sensors
- Quick connection via square cable clamps
- Approved to MED, DNV, IEC 60992-504 requirements
- DNV-GL Module B (Type Examination)
- DNV-GL Module E (Product Quality Assurance)

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A Marine Approved Common Mounting Base which is fully compatible with Hochiki's ESP range of sensors.

Supplied with square cable clamps for secure and reliable cable termination and is also capable of driving a remote LED if required.

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A marine approved 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(SCI)M is compatible with the ESP range of marine approved sensors and does not require a loop address. A remote fire LED facility is provided when a sensor is attached to the base.

**NOTE:** A fitted sensor will still be powered when this device is isolating.
A Marine Approved Intelligent Dual Relay Controller designed to provide two general-purpose relay outputs. Each output can be controlled independently and used to control dampers, plant and equipment shutdown.

The monitored input can be used for local power supply fault monitoring or as a general-purpose input.

The model features an integral short-circuit isolator. The CHQ-DRC2/M(SCI) utilises simple DIL switches for reliable addressing.

A back box is also available (CHQ-BACKBOX) which, when used in conjunction with the CHQ-DRC2/M(SCI), increases the IP rating to IP65.

**Features:**
- Loop powered
- Single loop address
- Two independently controlled changeover relays
- Relays contact rated at 30 V dc at 1A
- Auxiliary monitored input
- Feature an integral short-circuit isolator
- Approved to MED, DNV, IEC 60092-504 requirements
- DNV-GL Module B (Type Examination)
- DNV-GL Module E (Product Quality Assurance)
- Can be used with CHQ-BACKBOX to comply with BS 7671

A Marine Approved Intelligent Dual Input Module designed to interface to a variety of inputs such as door contacts, sprinkler flow/door switches and plant equipment.

The model features an integral short-circuit isolator.

A back box is also available (CHQ-BACKBOX) which, when used in conjunction with the CHQ-DIM2/M(SCI), increases the IP rating to IP65.

**Features:**
- Loop powered
- Single loop address
- Each input can be configured to operate on either an open or short-circuit.
- Features an integral short-circuit isolator
- Approved to MED, DNV, IEC 60092-504 requirements
- DNV-GL Module B (Type Examination)
- DNV-GL Module E (Product Quality Assurance)
02313

CHQ-SZM2/M(SCI)
Marine Approved Single Zone Monitor with SCI

A Marine Approved Intelligent Single Zone Monitor designed to allow up to 6 marine approved conventional detectors or 3 DRD-EM to be interfaced to Hochiki’s ESP analogue addressable system.

The model features an integral short-circuit isolator. The CHQ-SZM2/M(SCI) utilises simple DIL switches for reliable addressing.

A back box is also available (CHQ-BACKBOX) which, when used in conjunction with the CHQ-SZM2/M(SCI), increases the IP rating to IP65.

NOTE: The conventional zone on the CHQ-SZM2/M(SCI) does not support any line continuity options; if Call Points are being interfaced they should be wired at the beginning of the zone.

Features:
- Loop powered
- Up to 6 Conventional Detectors
- Single loop address
- Remote LED output
- Fully monitored for Short and Open Circuit faults
- Features an integral short-circuit isolator
- Approved to MED, DNV, IEC 60092-504 requirements
- DNV-GL Module B (Type Examination)
- DNV-GL Module E (Product Quality Assurance)
- Up to 3 DRD-EM Flame Detectors

02314

CHQ-DSC2/M(SCI)
Marine Approved Dual Sounder Controller with SCI

A Marine Approved Intelligent 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. The model features an integral short-circuit isolator.

The unit utilises simple DIL switches for reliable addressing. A back box is also available (CHQ-BACKBOX) which, when used in conjunction with the CHQ-DSC2/M(SCI), increases the IP rating to IP65.

Suggested power supply: HE-PSU(2.5A) or the HE-PSU(5.25A)

Features:
- Single loop address
- Two independent sounder circuits
- Each circuit fully monitored for Open and Short Circuit faults
- Auxiliary monitored input
- Outputs are synchronised and can be driven continuously or intermittently
- 24 V dc auxiliary power required
- Features an integral short-circuit isolator
- Approved to MED, DNV, IEC 60092-504 requirements
- DNV-GL Module B (Type Examination)
- DNV-GL Module E (Product Quality Assurance)
- Approved by LPCB
**Marine Approved Single Input Module**

**CHQ-SIM/M**

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

The CHQ-SIM/M features flying leads as well as a wiring terminal block for loop connection, making installation quick and easy.

**Features:**
- Includes a single monitored input
- Small design for simple provision of a monitored input onto an ESP loop
- DNV-GL Module B (Type Examination)
- DNV-GL Module E (Product Quality Assurance)

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**Marine Approved Analogue Dual Zone Monitor**

**CHQ-DZM/M(SCI)**

Analogue Dual Zone Monitor is a Dual Circuit Zone Controller designed to allow up to 60 conventional detectors (30 on each zone) to be interfaced to Hochiki’s ESP analogue addressable system.

The unit also features a Schottky Diode line continuity option, when used in conjunction with the optional LCMU.

Full monitoring against malfunction or disconnection, together with a selftest feature through the ESP protocol, ensuring the integrity of the CHQDZM(M/SCI) at all times. The CHQ-DZM/M(SCI) utilises simple DIL switches for reliable addressing.

When Resistive EOL option is chosen the conventional zone on the CHQDZM(SCI) does not support any line continuity options, therefore if Call Points are being interfaced they should be wired at the beginning of the zone.

Suggested power supply: HE-PSU(2.5A) or the HE-PSU(5.25A)

**Features:**
- Single Loop Address
- Supports two independent zones of conventional detectors
- 2 Independent Inputs for Monitoring of Volt Free Contacts
- Both zones fully monitored for short/open circuit
- Requires an auxiliary 24V dc supply DNV-GL Module B (Type Examination)
- DNV-GL Module E (Product Quality Assurance)

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**Marine Approved Analogue Dual Zone Monitor**

**CHQ-DZM/M(SCI)-IS**

Analogue Dual Zone Monitor 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 fully monitored for open and short circuit.

The unit also features an integral short-circuit isolator.

**Features:**
- Single Loop Address
- Supports two independent zones of conventional detectors
- 2 Independent Inputs for Monitoring of Volt Free Contacts
- Both zones fully monitored for short/open circuit
- Requires an auxiliary 24V dc supply
- DNV-GL Module B (Type Examination)
- DNV-GL Module E (Product Quality Assurance)
Accessories

02318
HCP-EM(SCI)
Marine Approved Addressable Manual Call Point with SCI (Red)

02319
HCP-WM(SCI)
Marine Approved Weatherproof Addressable Manual Call Point with SCI (Red)

A Marine Approved Intelligent Manaul Call Point fully compatible with Hochiki’s ESP analogue addressable protocol and featuring an integral short-circuit isolator (SCI).

The unit incorporates a bi-coloured LED, which can be selected as pulsing/non-pulsing for communications polling and is continuously lit when the unit is operated – in these two states the LED will show red. The LED will show amber when a short-circuit is present but will switch to red if the unit is activated.

The unit operates by pressing the EN54 compliant non-frangible (plastic) element and produces a high level ESP interrupt. A built-in test function initiated by the control panel ensures the integrity of the device at all times and the device can be tested by insertion of a test key in the underside of the unit.

Two terminal blocks are provided for easy connection to the loop wiring. The unit is addressed using the TCH-B200 Hand Held Programmer for quick and reliable addressing. The unit can be flush mounted as supplied.

For surface fixing a suitable back box such as the SR MOUNTING BOX is required (sold separately). An optional glass element is also available. Also features plug-in wiring terminals for easy installation.

Features:

- Fast response
- Status LED
- Non-frangible element fitted as standard (conforms to EN54)
- Addressed with TCH-B200 Hand Held Programmer & PL-3 lead
- Surface or flush mounting
- Approved to MED, DNV, IEC 60092-504 requirements
- DNV-GL Module B (Type Examination)
- DNV-GL Module E (Product Quality Assurance)
- Approved by LPCB

A Marine Approved Intelligent Weatherproof Manual Call Point fully compatible with Hochiki’s ESP analogue addressable protocol and featuring an integral short-circuit isolator (SCI).

The unit incorporates a bi-coloured LED, which can be selected as pulsing/non-pulsing (fire alarm control panel compatibility is required for this feature) for communications polling and is continuously lit when the HCP-WM(SCI) is operated – in these two states the LED will show red.

The LED will show amber when a short-circuit is present but will switch to red if the unit is activated.

The unit operates by pressing the EN54 compliant non-frangible (plastic) element and produces a high level ESP interrupt. A built in test function initiated by the control panel ensures the integrity of the device at all times and the device can be tested by insertion of a test key in the underside of the unit. Two terminal blocks are provided for easy connection to the loop wiring.

The unit is addressed using the TCH-B200 Hand Held Programmer for quick and reliable addressing. An optional glass element is also available.

Features:

- Fast response
- Integral short-circuit isolator
- Bi-colour status LED
- Non-frangible element fitted as standard (conforms to EN54)
- Addressed with TCH-B200 Hand Held Programmer & PL-3 lead
- Surface mounting
- LPCB Approved to EN54
- Approved to MED, DNV, IEC 60092-504 requirements
- DNV-GL Module B (Type Examination)
- DNV-GL Module E (Product Quality Assurance)
- IP67 rated
Mounting Back Box with Glands

The approved design of the SBB-2 (non-marine version) provides a splash-proof, dust-proof, secure fixing for the Hochiki CDX and ESP range of detectors and their associated Bases.

It can be installed on a variety of different fixing surfaces and because it has been manufactured to match the colour of Hochiki’s range of ivory products, it provides an aesthetically pleasing solution where surface fixed devices are required.

The housing supports four 20 mm glanded entries, for zone, or loop cabling access. It is also supplied with base fixing screws and two cable glands specifically designed to provide protection against water and dust ingress.

The detector base fits directly onto the SBB-2 and sits within a slight recess. This provides the accurate fit and the protection against dust and water ingress.

**Features:**
- 4 cable entry holes suitable for cable glands (2 glands supplied)
- Colour matched to ivory detector range
- Provides moisture and dust resistant fixing
- Ideal for bulk-head fixing
- Approved by LR and DNV GL

A surface mounted back box for the HCP-E(SCI) manual call point which is 32mm deep.

**Features:**
- For surface mounting of the HCP call points
- Standard red
- 32 mm deep
- 86 mm square

98188
SR MOUNTING BOX
Surface Mounting Call Point Back Box (Red)

02320
MBB-2
Mounting Back Box with Glands

**Accessories**
**Accessories**

**02321**  
CHQ-BACKBOX  
Module Back Box

The CHQ-BACKBOX is designed for installations where a module from the CHQ Range requires mounting within a glanded enclosure. The unit features ten knock-outs suitable for cable glands (not supplied) and accepts a CHQ module directly as a lid.

**02322**  
CHQ-SUB  
CHQ-BOX Sub Assembly

The CHQ-SUB Assembly is a set of replacement components designed to fit any of the existing CHQ Modules. The sub-assembly consists of the PCB tray, PCB cover and semi-opaque lid and can be used in cases where an existing module housing becomes damaged and needs replacement.

**02323**  
CHQ-ADAPTOR  
Adaptor for New CHQ Modules

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.

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

**Features:**
- Robust design  
- Compatible with all CHQ Modules  
- Used to replace damaged components

**Features:**
- Allows the PCB component of a CHQ Module to be housed in an alternative enclosure  
- Footprint matches older enclosure sizes
The Discovery Marine Optical Smoke Detector operates using the light scatter principle and is ideal for applications where slow-burning or smouldering fires pose a potential risk.

The Discovery Marine Multisensor Detector comprises optical smoke and thermistor temperature sensors which give both a combined signal as well as a separate heat signal for improved false alarm management.

The Discovery Marine Heat Detector, distinguishable by the low airflow resistant case, uses a single thermistor to sense the air temperature around the detector.

The Discovery Marine Ionisation Smoke Detector uses a low-activity radioactive foil to detect fires by irradiating the air in the smoke chamber and causing a current flow. If smoke enters the chamber, the current flow is reduced leading to an alarm.

Optical smoke detectors incorporate a pulsing LED located in a labyrinth within the housing of the detector. The labyrinth is designed to exclude light from any external source. At an angle to the LED is a photo-diode which, in clear air conditions, does not receive light directly from the LED.

The detector transmits a clear air signal to the control panel. When smoke enters the labyrinth, light is scattered onto the photo-diode and the signal to the panel increases.

The signal is processed by the electronic circuitry and transmitted to the control equipment in exactly the same way as in the case of the ionisation smoke detector. Full details of the principles of operation and the electrical description are published in the XP95 Engineering Product Guide. XP95 I.S. detectors have the same operating characteristics as the standard versions.

The XP95 IS Heat Detector is distinguishable from XP95 IS smoke detectors by its low airflow resistance case which allows good contact between the sensing thermistor and the surrounding air.

The device monitors temperature by using a single thermistor network which provides a voltage output proportional to the external air temperature.

The voltage signal is processed and transmitted to the control equipment in the same way as in the case of the ionisation smoke detector. Full details of the principles of operation and the electrical description are published in the XP95 Engineering Product Guide. XP95 IS detectors have the same operating characteristics as the standard versions.
Detectors

05288
55000-027MAR
Marine Intelligent Base Mounted UV Flame Detector

The Marine Intelligent Base Mounted UV Flame Detector is designed to protect enclosed indoor areas where open fires may be expected. The detector has a fast acting response to flames up to 25m away and is equipped with a single UV sensor with a narrow spectral response in order to discriminate between flames and most spurious sources of radiation.

05279
55000-034MAR
Stainless Steel Intelligent IR³ Flame Detector

The Stainless Steel Intelligent IR³ Infra-red (IR) Flame Detector is designed to protect areas where open flaming fires may be expected. The detector has three IR sensors that respond to different IR wavelengths in order to discriminate between flames and spurious sources of radiation.

05287
55000-028MAR
Marine Intelligent Base Mounted UV IR² Flame Detector

The Marine Intelligent Base Mounted UV Dual IR Flame Detector is designed to protect open indoor areas where open flaming fires may be expected. The detector has a UV and dual IR sensors responding to different wavelengths in order to discriminate between flames and spurious sources of radiation.

05289
55000-029MAR
Marine Intelligent Base Mounted IR³ Flame Detector

The Intelligent Base Mounted IR3 Flame Detector is designed to protect all indoor areas, even in dirty or smoky conditions where open flaming fires may be expected. The detector has three IR sensors that respond to different IR wavelengths in order to discriminate between flames and spurious sources of radiation.
**Bases**

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<tr>
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<td>08164</td>
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All detectors in the Discovery Marine range are for use with the Marine Mounting Base.

The mounting base is a low insertion force base with stainless steel contacts for the detector terminals. XPERT 7 Cards are supplied with all Discovery bases.

The Discovery Marine Isolator Base is unique and designed to only accept the marine isolator.

For ease of commissioning, a ‘Magnetic Wand’ can be used to test and adjust each sounder locally.

**Interfaces**

<table>
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</tbody>
</table>

The Protocol Translator are installed in the safe area ensuring integrity of communication between control equipment and field devices and safety within the limits of BASEEFA approvals.

The XP95 IS Galvanic Barrier is installed in the safe area and ensures system integrity.

The Marine DIN-Rail Dual Isolator provides two independent isolators which sense and isolate short circuits on Discovery and XP95 loops and spurs.
The Discovery Marine Isolator is placed at intervals on the loop and ensures that, in the case of a shortcircuit, only the section between the isolators will be affected. When the short-circuit is removed, the isolators automatically restore power and data to the isolated section.

**Key Features:**
- Detects wiring shortcircuits using patented technology
- Minimises disruption from short-circuits
- Automatic de-isolation on short-circuit removal
- Up to 20 detectors or equivalent load may be installed between isolators

---

The Marine DIN-Rail Zone Monitor powers and controls the operation of a zone of up to 20 conventional fire detectors from a loop of XP95 addressable detectors and ancillary devices.

---

The Marine DIN-Rail Input/Output Unit provides a voltage-free, single pole, changeover relay output, a single, monitored switch input and an unmonitored, non-polarised opto-coupled input.

**Key Features:**
- It can report fault, switch open and switch closed levels
- Three visible LEDs
- Capable of switching up to 8A at 250V AC
- Fits a standard 35mm DIN-Rail

---

The Marine DIN-Rail Sounder Controller (8 Amperes) is used to control the operation of a zone of externally powered sounders and report their status to the control panel.

**Key Features:**
- Allows sounders to be operated continuously or be pulsed, 1 second on, 1 second off
- May be synchronised when in pulsed operation
- External supply monitoring
- Will accept a load of 8A

---

The Discovery Marine Isolator is placed at intervals on the loop and ensures that, in the case of a shortcircuit, only the section between the isolators will be affected. When the short-circuit is removed, the isolators automatically restore power and data to the isolated section.

---

The Input/Output Unit provides a voltage-free, double pole changeover (DPCO) relay output, a single monitored switch input and an unmonitored, non-polarised opto-coupled input.
The Discovery Marine Manual Call Points has been designed for use in marine and offshore environments and are available in two versions for indoor and outdoor applications. Both versions are available with and without short circuit isolators.

An alarm is initiated by pressing the resettable element. The Manual Call Point signals to the Control and Indicating Equipment using an interrupt feature within the Apollo Digital Protocol.

An alarm status is indicated by a yellow and black bar in the lower section of the resettable element and a red LED.

The Manual Call Point can be easily reset from the front using the supplied reset key.

The Discovery Marine Manual Call Point has been approved for use in indoor marine applications. A seven-segment DIL switch enables addressing of each call point at commissioning stage.

When operated, the manual call point interrupts the polling cycle for a fast response. Bi-coloured LEDs indicate isolate and normal conditions.
The Apollo Waterproof Manual Call Point has a highly visible alarm indicator which can be seen from up to 10 metres away. The manual call point interrupts the polling cycle for a fast response, when activated. A combined LED indicator and front reset mechanism allows for a simple reset. The Waterproof Addressable Manual Call Point is loop powered and operates at 17-28V dc for all variants.

**Features:**
- EN 54-11 approved (EN 54-17 approved for Isolator version)
- A unique, ergonomically designed key for resetting and front cover removal
- Captive screws

---

The Base Mounted Flame Detector Bracket includes a bracket and Deckhead Mounting Box. Internal mounting base pictured sold separately.
The X10 industrial sounder, and sounder beacon range are tough and durable signalling solutions, designed to meet the challenges within the harshest of environments.

The X10 range is versatile and flexible by design, perfect for new systems, standalone or retrofit installations. With a range of housing sizes and lens colours to choose from, the X10 offers you maximum choice with minimum SKUs.

The X10 provides an array of unique features including its innovative 5 joule equivalent LED modular beacon and a wide voltage range. Its versatility makes it the ideal solution where clear and dependable signalling is required.

The X10 certainly signals a change in industrial notification.

**Features:**

- 3 housing sizes: Mini 100dB | Midi 110dB | Maxi 120dB
- IK08 Impact resist and Dual IP Rated to IP66 and IP69K
- 10 year warranty (terms and conditions apply)
- 102 tones facilitates install and retrofits accommodating a wide range of Industry requirements
- 6 lens colours available, secured by 1 single ¼ turn captive fastener
- 4 fade resistant housing colours available
- Up to 4 stage alarm, with multiple alert and control possibilities for both AC and DC variants
- Modular LED beacon capable of multiple functionality on / off; 1/2Hz (30FPM) / 1Hz (60FPM)
- Temperature range -40°C to +70°C
- Captive salt water resistant stainless steel fasteners
- M20 pre drilled threaded cable entries fitted with IP69K blanking plugs as standard
- UV stabilised polycarbonate ASA
- Low Inrush current with a range of dB(A) outputs
Accessories

Sounder
08410
7092345FUL-0381
X10 Mini Sounder, Red Housing, 10-60 VAC-DC

Beacons
08411
7092353FUL-0389
X10 Mini Sounder with Beacon Housing (Red), 10-60 VAC-DC

Sounder
08413
7092323FUL-0359
X10 Midi Sounder, Red Housing, 10-60 VAC-DC

Beacons
08414
7092331FUL-0367
X10 Midi Sounder with Beacon Housing (Red), 10-60 VAC-DC

Sounder
08416
7092307FUL-0343
X10 Maxi Sounder, Red Housing, 10-60 VAC-DC

Beacons
08417
7092315FUL-0351
X10 Maxi Sounder with Beacon Housing (Red), 10-60 VAC-DC

Beacons
08412
7092361FUL-0397
X10 Mini Beacon, Red Lens

Beacons
08415
7092339FUL-0375
X10 Midi Beacon, Red Lens

Beacons
08418
7092368FUL-0576
X10 Maxi Beacon, Red Lens

Addressable

Fulleon
Covers

05939
STI-13110-FR
Universal Stopper, Dome, surface mounted, without sounder, Red “Fire” label in English

05941
STI-1250
Weather Stopper® without Horn Flush Mount, Fire Label

The Universal Stopper is an indoor and outdoor, dome polycarbonate that covers and protects devices such as manual call points, emergency buttons and dual action pull stations etc., without restricting legitimate operation.

The versatile cover offers excellent protection against physical damage (both accidental and intentional), dust and grime as well as harsh environments inside and out. When surfaced mounted, the design meets the requirements of IP 56.

Testing equipment

09327
Smoke & Heat Testing kit

09328
Smoke & Heat & CO Testing kit

Includes:
- 1 x Testifire-1001 kit (09304)
- 1 x Bag (09305)
- 1 x Telescopic Access Pole (09310)
- 3 x Extension Poles (09315)
- 1 x Detector removal tool (09325)

Includes:
- 1 x Testifire-2001 kit (09307)
- 1 x Bag (09305)
- 1 x Telescopic Access Pole (09310)
- 3 x Extension Poles (09315)
- 1 x Detector removal tool (09325)

Features:
- Protective polycarbonate cover
- Helps stop false alarms
- Without horn
- Flush mount with gasket
- UL/cUL Listed, MEA Approved, IP Rated 44
- 3 yr guarantee
- 7 in H x 5 in W x 3.2 in D
Accessories

M20 Cable Gland With Locknut, Nylon, IP68
822-9757
08105

M12 Cable Gland With Locknut, Nylon, IP68
822-9739
08106

RS Pro Nylon 66 Cable Glands - IP68

From RS Pro, a range of nylon 66 cable glands offering excellent strain relief and cable protection. Cable glands allow you to mount a cable into a pre-drilled hole. Commonly used within construction and by electrical engineers, cable glands are simple and easy to use. Each gland is rated as IP68, ensuring the level of cable protection is incredibly resilient to the outdoors and other harsh environments. All models are highly reliable and excellent quality.

Features:
- Various threads are available
- Completely sealed against dust
- Excellent water resistance
- Locknut supplied
- Made with high quality Nylon 66
- UL Standard

What kind of protection is available on these glands?
Rated at IP68, the level of protection provided by these glands are valuable to almost any environment. With a water tight seal and excellent durability, certain possible problems like dust or water will become non-issues to any application. Keeping the cable secure and protected from various outcomes.

Cables

The world of cables

Please contact us - a wide variety of cables are available, and if you find something, we don’t have in our portfolio, we will find it for you.

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