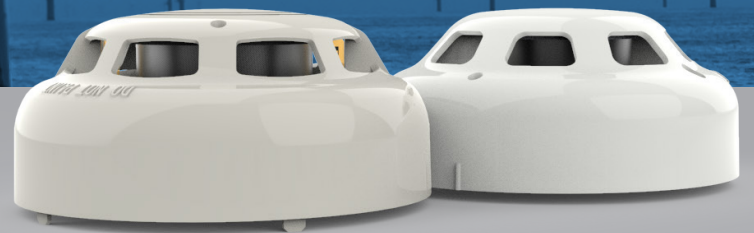


# MARINE



## ESP & CDX INTELLIGENT & CONVENTIONAL MARINE APPROVED

Hochiki's marine approved Intelligent and Conventional products have been designed around the existing world-proven ESP and CDX ranges. Products have been approved for marine use by DNV-GL and LPCB. Ideal for use on ships, oil and gas platforms, wind farms and other similar applications the Hochiki Europe Marine incorporates the same world proven reliability and quality as its land-based equipment.

### INTELLIGENT MARINE RANGE

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

- Driven with the world proven, virtually error free ESP Protocol
- Exceeds the performance requirements of EN54
- Rapid response communication - ensures fastest panel notification and greater life safety
- Approved to MED by DNV-GL
- Approved by LPCB
- Designed and manufactured to ISO9001.

### CONVENTIONAL MARINE RANGE

Hochiki's CDX marine-approved Conventional range offers solutions for most conventional marine fire detection applications.

- Extensive range providing flexible solutions
- Rapid, reliable installation
- Approved to MED by DNV-GL
- Designed and manufactured to ISO9001.

## OUR MARINE CASE STUDIES



### Castor Dordt - Refurbished Dutch Navy Ship 5 Multi-Heat Detectors / 8 Manual Call Points

The Castor's glory days as one of the Dutch Navy's premier vessels were a distant memory. It was in a state of complete disrepair – until 2007 when a group of maritime enthusiasts led by Mario van Parijs joined forces with the sole intention of restoring the ship. The ship is now one of the focal points of Rotterdam's Rijnhaven and is open for viewing.

“Recently, when some welding was being carried out, a section of dry teak decking caught alight. The situation was quickly brought under control with only minor damage but I was delighted with the fast response of the Hochiki system.”



### London Array - Offshore Wind Farm in Margate VADs / Weather Proofing Kits / IP Rated Manual Call Points / FIREvac Voice Alarm Systems

Margate offshore Wind Farm, operated by London Array generates about £1 million worth of electricity a day when all 175 turbines are in operation, this wind farm produces enough electricity to power half a million UK homes a year and reduces harmful CO2 emissions by around 925,000 tons per year.

“We do look at other companies, to ensure we are using the best in class, however every time we come back to Hochiki products for several reasons - the main one being the innovation in technology and flexibility the Hochiki range offers us.”



### Perenco - Hotel Barge, Gabon Smoke Detectors / ROR Heat Detectors / MCPs / Audio Alarms / Visual Alarms / Marine Fire Panel

Innovative fire safety systems from Hochiki Europe have been used to protect the residents of a renovated hotel barge operated by oil and gas company Perenco in Gabon. The barge didn't just have sleeping quarters, it had a wide range of zones, from the kitchens to the engine room, which all had unique life safety requirements that needed to be addressed.

“Hochiki Europe and Autochim both worked hard to carry out the renovation of the barge's life safety system on time and they more than delivered... As a result, we now have a fully compliant, reliable fire safety system on the barge, ensuring we can continue to keep our workers comfortable and, above all, safe while they are out at sea.”

# SYNCRO ASM

## Marine & Offshore Analogue Addressable Control Panel 1-2 loop

### 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 Hochiki protocols Stores 500 last events in event log
  - ▶ Installer friendly, removable equipment chassis
  - ▶ Different language and character set variants available
  - ▶ Approved and certified to EN54-2/ EN54-4



BS-EN54-2  
BS-EN54-4  
KM73505



### Description

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 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.

### Specification

Construction	1.2mm mild sheet steel
IP Rating	IP30
Finish	Epoxy powder coated
Colour - lid & box	BS 00 A 05 grey - fine texture
Colours - control plates & labels	RAL 7047 light grey - satin
Weight	6kg (standard panel)
Display	8 lines of 40 characters graphic LCD
Mains supply fuse	1.6A 250V
Power supply DC rating	24V 3 Amps

## Specification

Aux 25V supply	Fused at 500 milliamps
Maximum battery size	7Ah 12V (2 per panel) (non-networked)
Fault contact rating	30V DC 1 Amp
Fire contact rating	30V DC 1 Amp
Alarm contact rating	30V DC 1 Amp
Sounder output rating	Fused at 1 Amp each
Detection loop	400 milliamp output
Detector protocol	Hochiki ESP
Printer port	Serial RS232
Serial expansion port	Serial RS485 (Compatible with all Syncro I/O modules)
PC port	Serial RS232
Network connection	RS485 - Up to 64 panels via fully fault tolerant optional network card
Remote Silence input (SIL)	Switched -ve
Remote fault input (FLT)	Switched -ve
Remote reset input (RES)	Switched -ve
Remote alert input (INT)	Switched -ve
Remote evacuate input (CNT)	Switched -ve
Download lead	Standard S187, X187LS economy
Configuration	Via Loop Explorer PC utility

## Panels Lite

Product Code	Protocol	Zones	Loops	Printer	Size (mm)
SYNCRO-ASM-1M2	Hochiki	16	1	No	385 x 310 x 90
SYNCRO-ASM-2M2	Hochiki	16	2	No	385 x 310 x 90

# SYNCRO VIEW MARINE

## Marine and Offshore Local LCD Control Panel Repeaters

### 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
- ▶ 24V DC or 230V AC power options



### Description

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 24VDC 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.

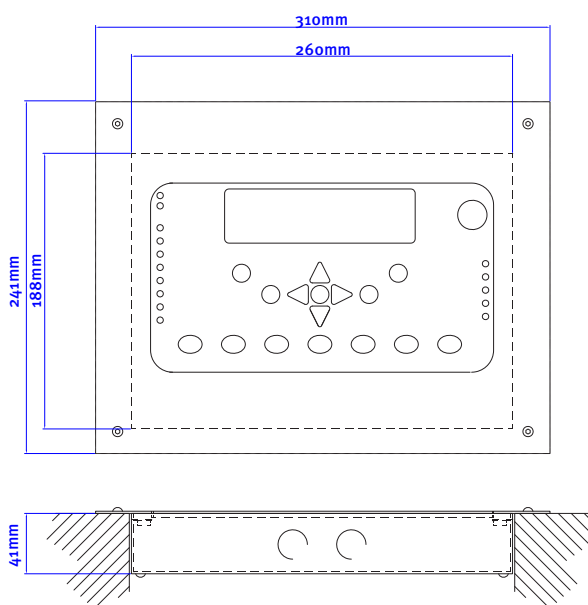
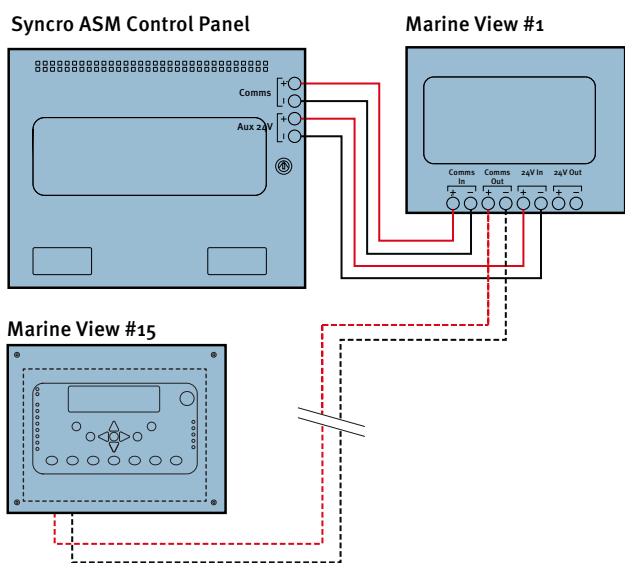
Up to 15 Syncro View Marine annunciators can be connected to each control panel on the Syncro ASM network making View Marine ideal where multiple points of indication and/or control are required in such as places as engine rooms, staff quarters, living spaces or control area's.

### Equipment

Product Code	Description	PSU	Size (mm)
SYNCRO-ASM-VIEW	Syncro View Marine repeater panel	-	330 X 255 X 90

## Specification

Construction	1.2mm mild sheet steel
IP Rating	IP30
Finish	Epoxy powder coated
Colour - lid & box	BS 00 A 05 grey - fine texture
Colour - controls plate & labels	Ral 7047 light grey - satin
Display	8 lines of 40 characters graphic LCD
Cable entry	5 x 20mm knockouts in top of box and 5 in rear
Mains supply (Mains models only)	230V AC +10% - 15% (20 Watts maximum)
24V supply (24V DC models only)	21 to 30V DC
Mains supply fuse	2 Amp, 20mm
Power supply rating	28V 750mA total (including battery charging)
Maximum ripple current	200 millivolts
Battery type (Yuasa NP)	Two 12 Volt 1.9Ah sealed lead acid in series
Battery charge voltage	27.6VDC nominal
Battery charge current	200mA maximum
Battery fuse	200mA, 20mm, glass
Maximum current draw from batteries	95mA
Quiescent current of panel in mains fail	0.03 Amps
Serial data connection	2 core RS485 (Up to 1200 metres total cable length)
Maximum terminal capacity	2.5mm <sup>2</sup>



## ESP RANGE OF DEVICES (Analogue Addressable)



**ACC-ENM**  
Marine Analogue Multi-Sensor



**ALN-ENM**  
Marine Analogue Optical  
Smoke Sensor



**ATJ-ENM**  
Marine Analogue Multi-Heat Sensor



**YBN-R-3M**  
Marine Short-Circuit Isolator Base



**YBN-R-3(SCI)M**  
Marine Approved Short-Circuit  
Isolator Base



**CHQ-SIM-M**  
Marine Single Input Module



**CHQ-DRC-M(SCI)**  
Marine Analogue  
Dual Relay Controller with SCI



**CHQ-DIM-M(SCI)**  
Marine Analogue  
Dual Input Module



**CHQ-SZM-M(SCI)**  
Marine Analogue  
Single Zone Module



**CHQ-DSC-M(SCI)**  
Marine Analogue  
Dual Sounder Controller



**CHQ-DZM-M(SCI)**  
Marine Analogue  
Dual Zone Monitor



**CHQ-DZM-M(SCI)-IS**  
Marine Analogue  
Dual Zone Monitor IS Compatible

## ESP Range cont.



**HCP-EM(SCI)**  
Marine Analogue  
Manual Call Point with SCI



**HCP-WM(SCI)**  
Marine Weatherproof Analogue  
Manual Call Point with SCI

## CDX RANGE OF DEVICES (Conventional)



**MCP1A**  
Marine Conventional  
Manual Call Point



**WCP1A**  
Marine Conventional  
Weatherproof Manual Call Point



**DCD-AE3M**  
Marine Conventional Combined Rate  
of Rise & Fixed Temperature  
Heat Detector (60°C)



**DCD-CE3M**  
Marine Conventional Combined Rate  
of Rise & Fixed Temperature  
Heat Detector (90°C)



**DRD-EM**  
Marine Conventional  
Flame Detector



**SOC-E-IS-M**  
Intrinsicly Safe Marine  
Conventional Smoke Detector



**SOC-E3NM**  
Marine Conventional  
Photoelectric Smoke Detector



**YBN-R-6M**  
Marine Conventional  
Electronics Free Mounting Base



## AUDIO VISUAL / ANCILLARIES



**A105N**  
Marine High Output  
Alarm Sounder



**A112N**  
Marine High Output  
Alarm Sounder



**AL105NX**  
Marine Sounder & Beacon



**BEXS110D24DC-M**  
Marine Grade  
Flameproof Alarm Sounder



**MBB-1**  
Marine Surface Back Box