

Hochiki



Analogue addressable devices
from Channel Safety Systems

Hochiki

Analogue addressable devices

The ESP intelligent range from Hochiki 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 communications link to all products in the range.

Features

- Removable, high performance chamber
- Twin fire LEDs allow 360 viewing
- Locking mechanism (sensor to base)
- Variable sensitivity - Electronically addressed
- All base fixing centres are 48 - 74mm
- Approved by LPCB & VdS



Image above shows from left to right F/CH/HCP-E and F/CH/ALG-E



GET INTERACTIVE

Scan the code for more information on the Hochiki range and the related Fire Alarm Panels

www.channelsafety.co.uk/hochiki/

Compatible Panels

Firewatch Analogue Addressable Panels



FW1001 panels are available in single or double loop, 16 to 32 zone. Full compatibility with Apollo XP95, Discovery and Hochiki ESP protocol devices.



FW9003 panels are available in 1, 2 or 5 loop. Each panel is capable of supporting Apollo XP95, Discovery, Hochiki ESP and Nittan protocol devices.



FW9004 panels are available in 1, 2 or 4 loop. Supports Apollo XP95, Discovery & Hochiki ESP protocol devices.



Photoelectric Smoke Sensor

The ALN-EN incorporates 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.

Features

- Removable, High Performance chamber
- Twin LEDs allow 360° viewing - green when polling, turn red in fire
- Locking mechanism (sensor to base)
- Variable sensitivity
- Electronically addressed
- Pulsing/non-pulsing controlled from panel
- SIL Level 2 approved variants available
- Available in white

SPECIFICATIONS	
Operating Voltage	17 – 41V DC
Low Power Mode (typ)	120 µA
Quiescent Current (typ)	400 µA
Alarm Current (controlled by CIE)	9.1 mA (excluding remote indicator)
Transmission Method	Digital Communications Using ESP
Operating Temperature	-10°C to + 50°C
Storage Temperature	-30°C to + 60°C
Max. Humidity	95% RH – Non Condensing (at 40°C)
Storage Humidity	<80% RH at 60 °C
Weight	95g



Product Dimensions

Height 45mm
Diameter 100mm

PRODUCT CODE	DESCRIPTION
F/CH/ALN-EN	Photoelectric smoke sensor - ivory
F/CH/ALN-EN/WHT	Photoelectric smoke sensor - white

Multi-Sensor Photoelectric & Heat

The ACC-EN has 3 modes, which are controlled from the Control Panel, allowing either the optical element or thermal element or both elements to be active in making the fire decision. The sensor polling LEDs can be controlled via the Control Panel (pulsing/non-pulsing). The ACC-E smoke chamber can easily be removed or replaced for easy maintenance

Features

- User selectable modes
- Removable, High Performance Chamber
- Twin LEDs allow 360 degree viewing - green when polling, turn red in fire
- Pulsing/non-pulsing controlled from panel
- Variable sensitivity
- Electronically Addressed
- SIL Level 2 approved variants available
- Available in white

SPECIFICATIONS	
Operating Voltage	17 – 41V DC
Low Power Mode (typ)	120 µA
Quiescent Current (typ)	400 µA
Alarm Current (controlled by CIE)	9.1 mA (excluding remote indicator)
Transmission Method	Digital Communications Using ESP
Operating Temperature	-10°C to + 50°C
Storage Temperature	-30°C to + 60°C
Max. Humidity	95% RH – Non Condensing (at 40°C)
Storage Humidity	<80% RH at 60 °C
Weight	95g



Product Dimensions

Height 45mm
Diameter 100mm

PRODUCT CODE	DESCRIPTION
F/CH/ACC-EN	Multi-sensor - ivory - photoelectric and heat
F/CH/ACC-EN/WHT	Multi-sensor - white - photoelectric and heat

Analogue Heat Sensor

The ATJ-EN incorporates 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)*.

*Control Panel compatibility required

Features

- User selectable modes
- Incorporates Fixed Temperature and Rate of Rise Heat elements
- Twin LEDs allow 360 degree viewing - green when polling, turn red in fire
- Pulsing/non-pulsing controlled from panel
- Electronically addressed
- SIL Level 2 approved variants available
- Available in white

SPECIFICATIONS	
Operating Voltage	17 – 41V DC
Low Power Mode (typ)	110 µA
Quiescent Current (typ)	350 µA
Alarm Current (controlled by CIE)	9.1mA (excluding remote indicator)
Transmission Method	Digital Communications Using ESP
Operating Temperature	-10°C to + 50°C
Storage Temperature	-30°C to + 60°C
Max. Humidity	95% RH – Non Condensing (at 40°C)
Storage Humidity	<80% RH at 70 °C
Weight	90g



Product Dimensions

Height 45mm
Diameter 100mm

PRODUCT CODE	DESCRIPTION
F/CH/ ATJ-EN	Analogue heat sensor - ivory
F/CH/ATJ-EN /WHT	Analogue heat sensor - white

Sensor Mounting Base

YBN-R/3 is a Common Mounting Base, which is fully compatible with Hochiki's ESP range of sensors.

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

Features

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

SPECIFICATIONS	
Operating Temperature	-10°C to + 50°C
Storage Temperature	-30°C to + 70°C
Max. Humidity	95% RH – Non Condensing (at 40°C)
Max. Wire Thickness	2.5 mm ² Cables
Weight	50g



Product Dimensions

Height 8mm
Diameter 100mm

PRODUCT CODE	DESCRIPTION
F/CH/YBN/R/3	Sensor mounting base

Short Circuit Isolator



The YBO-R/SCI Base is compatible with any of the ESP Sensors. The Base incorporates an amber LED to show when it is isolating a section of the loop, and if used under every analogue Sensor on the loop, none would be lost if a single short circuit was to occur.

The YBO-R/SCI does not use an address, and has the same wiring configuration as the YBN-R/3 Sensor Base making it very simple to install. The YBO-R/SCI can also be used without a Sensor; a cover can be fitted to conceal the wiring connections.

Features

- Detects short circuits on loop
- Status LED Connection of up to 127 per loop Supports ESP devices
- Quick connection via square cable clamps Available as a DIN Rail Module
- Available in Red
- For use with CHQ/WS2 Wall Sounder & CHQ/WSB Wall Sounder Indicator
- Approved by LPCB & VdS (G204048)

SPECIFICATIONS

Operating Voltage	17 – 41V DC
Quiescent Current (typ)	50 µA
Current In Short Circuit	<10 mA
Max. Short Circuit Current	1 A
Operating Temperature	-10°C to + 50°C
Storage Temperature	-30°C to + 60°C
Max. Humidity	95% RH – Non Condensing (at 40°C)
Max. Number of Isolators per Loop	127
Weight	85g

Product Dimensions

Height 13mm
Diameter 100mm

PRODUCT CODE	DESCRIPTION
F/CH/YBO-R/SCI	Short circuit isolator base ivory
F/CH/YBO-R/SCI/WHT	Short circuit isolator base white
F/CH/YBO-R/SCI/W/CHQ	Short circuit isolator base white for CHQ-WS2(WHT)
F/CH/YBO-R/SCI/R	Short circuit isolator base red
F/CH/YBO-R/3	Mounting base red
F/CH/YBO-R/3/WHT	Mounting base white

Addressable Base Sounder



YBO-BS is designed to be fit any of the ESP Range of Sensors, Indicators or Remote Indicators. The unit can also be converted into a wall sounder with the simple addition of a Cap (SI/CAP). An Auto-Shut-down feature allows the user to set a fixed time within which the sounder will operate, before automatically silencing itself, cutting noise pollution.

Features

- Loop Powered with Single Loop Address – addressed automatically by Control Panel or via the TCH-B100 Hand Held Programmer
- 51 User-Selectable Tones (all tones EN54-3 compatible)
- Auto-Shutdown feature prevents noise pollution
- Approved by LPCB & VdS

SPECIFICATIONS

Operating Voltage	17 – 41V DC
Low Power Mode (typ)	40 µA
Quiescent Current (typ)	150 µA
Sounding Current (typ)	0.8 mA (50 dB(A) @ 1 m) - 16 mA (98 dB(A) @ 1 m)
Sound Output (at 1 metre)	- 50 - 98 dB(A) (±2 dB(A)) @ 24V DC
Number of Tones	51
Tone Frequency	300 Hz - 2850 Hz
Operating Temperature	-10°C to +50°C
Storage Temperature	-30 °C to +70 °C
Max. Humidity	95% RH – Non Condensing (at 40 °C)
IP Rating	IP21
Weight	112g

Product Dimensions

Height 113mm
Width 113mm
Depth 43mm

PRODUCT CODE	DESCRIPTION
F/CH/YBO-BS	Addressable base sounder ivory
F/CH/YBO-BS/WHT	Addressable base sounder white

Addressable Base Sounder Indicator

The YBO-BSB incorporates a sounder and visual indicator and is using the Hochiki protocol. This unit is an analogue addressable Base Sounder & visual indicator, using the latest in technology to offer a range of tones and volumes while consuming low current.

It can be used either with any detector out of the ESP Range or just with a Cap (SI-CAP) in order to convert it into a wall sounder visual indicator.

Features

- Loop Powered with single Loop Address
- Variable Sound Output
- Sounder and Visual Indicators can operate independently
- 51 User-Selectable Tones (8 tones EN54-3 compatible).
- Auto-Shutdown feature prevents noise-pollution

SPECIFICATIONS	
Operating Voltage	17 – 41V DC
Low Power Mode (typ)	110 µA
Quiescent Current (typ)	250 µA
Sounding Current (typ)	1.3mA (50dB(A) @ 1m) ~ 21mA (98dB(A) @ 1m)
Sound Output (at 1 metre)	50 - 98 dB(A) (±2 dB(A)) @ 24V DC or above (EN54-3 compliant)
Number of Tones	51
Tone Frequency	300 Hz - 2850 Hz
Operating Temperature	-10°C to +50°C
Storage Temperature	-30 °C to +70 °C
Max. Humidity	95% RH – Non Condensing (at 40 °C)
IP Rating	IP21
Weight	160g



Product Dimensions

Height 113mm
Width 113mm
Depth 43mm

PRODUCT CODE	DESCRIPTION
F/CH/YBO-BSB	Addressable base mounted sounder/indicator ivory
F/CH/YBO-BSB/WHT	Addressable base mounted sounder/indicator white

Analogue Wall Sounder

The Analogue Wall Sounder CHQ-WS2 is designed to fit to the YBO-R/3 or the YBO-R/SCI. The sounder is IP rated to IP21 for internal use but it can be made weatherproof by utilising the weatherproof kit, which consists of a specialised back box and gasket set which also incorporates an auto shut-down mode.

Features

- Loop Powered Single Loop Address – addressed via the TCH-B100 Hand Held Programmer
- Weatherproof Kit available
- 51 User-Selectable Tones (all tones EN54-3 compatible)
- Approved by LPCB & VdS

SPECIFICATIONS	
Operating Voltage	17 – 41V DC
Quiescent Current (typ)	150 µA (with YBO-R/3 - RED) 200 µA (with YBO-R/SCI - RED)
Sounding Current (typ)	2 mA (90 dB(A) (±2 dB(A)) @ 1 m) - 8 mA (102 dB(A) (±2 dB(A)) @ 1 m)
Sound Output (at 1 metre)	90 - 102 dB(A) (±2 dB(A)) @ 24 VDC or above
Number of Tones	51
Tone Frequency	300 Hz - 2850 Hz
Operating Temperature	-10 °C to +50 °C
Storage Temperature	-30 °C to +70 °C
Max. Humidity	95% RH – Non Condensing (at 40 °C)
IP Rating	IP21 (IP65 with WS2-WPK)
Weight	152g



Product Dimensions

Height 112mm
Width 112mm
Depth 67mm

PRODUCT CODE	DESCRIPTION
F/CH/CHQ-WS2/R	Wall sounder red
F/CH/CHQ-WS2/WHT	Wall sounder white
F/CH/WS2-WPK	Weatherproof kit
F/CH/WS2-WPK/WHT	Weatherproof kit white

Analogue Wall Sounder Indicator



The CHQ-WSB features an integral beacon within the horn utilising high intensity LED technology. The sounder can be made weatherproof by utilising the WS2-WPK Weatherproof Kit, which consists of a specialised back box and gasket set. Also incorporates an auto shutdown mode, which allows the user to set a fixed time within which the sounder will operate, before automatically silencing itself, ideal for minimising noise pollution.

Features

- Loop Powered Single Loop Address – addressed via the TCH-B100 Hand Held Programmer
- Weatherproof Kit available
- 51 User-Selectable Tones (all tones EN54-3 compatible)
- Approved by LPCB & VdS

SPECIFICATIONS

Operating Voltage	17 - 41 VDC
Quiescent Current (typ)	150 μ A (with YBO-R/3) 200 μ A (with YBO-R/SCI)
Sounding Current (typ)	2 mA (90 dB(A) (\pm 2 dB(A)) @ 1 m) - 8 mA (102 dB(A) (\pm 2 dB(A)) @ 1 m)
Additional Current	+ 5 mA
Sound Output (at 1 metre)	90 - 102 dB(A) (\pm 2 dB(A)) @ 24V DC
Number of Tones	51
Tone Frequency	300 Hz - 2850 Hz
Operating Temperature	-10 °C to +50 °C
Storage Temperature	-30 °C to +70 °C
Max. Humidity	95% RH – Non Condensing (at 40 °C)
IP Rating	IP21 (IP65 with WS2-WPK)
Weight	164g

Product Dimensions

Height 112mm
Width 112mm
Depth 67mm

PRODUCT CODE	DESCRIPTION
F/CH/CHQ-WSB/R	Wall sounder beacon red
F/CH/CHQ-WSB/WHT	Wall sounder beacon white

Addressable Indicator



The CHQ-AB range consists of addressable loop-powered visual indicators, with high-intensity LEDs and a Fresnel lens design which produces a highly visible flash. All units can be used on the YBN-R/3, the Base Sounders CHQBS or YBO-BS, the Base Sounder Beacon YBO-BSB or the Short-Circuit Isolator Base YBO-R/SCI.

Features

- High Intensity LED technology
- Variable flash frequency
- Addressable via Hand Held Programmer (TCH-B100)
- Up to 127 devices per loop
- Approved by VdS

SPECIFICATIONS

Operating Voltage	17 - 41 VDC
Quiescent Current (typ)	240 μ A (300 μ A max)
Loop current (when polled)	22mA \pm 20%
Alarm Current (typ)	4.3mA (5.0mA max)
Operating Temperature	-10 °C to +50 °C
Storage Temperature	-30 °C to +60 °C
Max. Humidity	95% RH – Non Condensing (at 40 °C)
Weight	88g

Product Dimensions

Height 38mm
Height with base 46mm
Diameter 100mm

PRODUCT CODE	DESCRIPTION
F/CH/CHQ-AB	Addressable indicator red lens ivory
F/CH/CHQ-AB/WHT	Addressable beacon red lens white

Addressable Call Points

The Analogue Addressable Manual Call Points come with or without a Short-Circuit Isolator unit which incorporates a bi-coloured LED, which can be selected as pulsing/non-pulsing for communications polling and is continuously lit when the HCP-E is operated.

Features

- Fast response
- Non-frangible element fitted as standard (conforms to EN54)
- Addressed with TCH-B100 Hand Held Programmer
- LPCB Approved to EN54

SPECIFICATIONS	
Operating Voltage	17 – 41V DC
Low Power Mode	F/CH/HCP-E/SCI -180 µA (max), 100 µA (typ) F/CH/HCP-E - 90 µA
Quiescent Current	F/CH/HCP-E/SCI - 350 µA (max), 250 µA (typ) F/CH/HCP-E -220 µA
Alarm Current	F/CH/HCP-E/SCI - 10.0 mA (max), 5 mA (typ) F/CH/HCP-E -5.0 mA
Operating Temperature	-10 °C to + 50 °C
Storage Temperature	-30 °C to + 60 °C
Humidity	95% RH – Non Condensing (at 40 °C)
Resistance	in positive 100 mΩ when closed (max), 100 kΩ when open (min)
IP Rating	IP24
Short-circuit threshold (typ)	430 Ω
Weight	110g



Product Dimensions

Height 93mm
Width 89mm
Depth 27.5mm

PRODUCT CODE	DESCRIPTION
F/CH/HCP-E	Addressable call point red
F/CH/HCP-E/SCI	Addressable call point with SCI red

Weatherproof Call Points

The HCP-W Weatherproof Manual Call Points come with or without a Short-Circuit Isolator unit which incorporates a bi-coloured LED, that can be selected as pulsing/non-pulsing for communications polling and is continuously lit when the HCP-W 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.

Features

- Fast response
- Non-frangible element fitted as standard (conforms to EN54)
- Addressed with TCH-B100 Hand Held Programmer
- LPCB Approved to EN54

SPECIFICATIONS	
Operating Voltage	17 – 41V DC
Low Power Mode	F/CH/HCP-W/SCI -180 µA (max), 100 µA (typ) F/CH/HCP-W - 85 µA
Quiescent Current	F/CH/HCP-W/SCI - 350 µA (max), 250 µA (typ) F/CH/HCP-W -230 µA
Alarm Current	10.0 mA (max), 5 mA (typ)
IP Rating	IP67
Short-circuit threshold (typ)	430 Ω
Weight	234g



Product Dimensions

Height 94mm
Width 98mm
Depth 78mm

PRODUCT CODE	DESCRIPTION
F/CH/HCP-W	Weatherproof addressable call point red
F/CH/HCP-W/SCI	Weatherproof addressable call point with SCI red

Dual Input Module



Product Dimensions

Length 157mm
Width 127mm
Depth 35mm (module including lid 79 mm)

PRODUCT CODE	DESCRIPTION
F/CH/CHQ-DIM/SCI	Dual input module with SCI

CHQ-DIM/SCI is a Dual Input Module designed to interface to a variety of inputs such as door contacts, sprinkler flow/door switches and plant equipment.

Features

- Single Loop Address
- Loop Powered
- 2 Independent Inputs for Monitoring of Volt
- Each Input can be Configured to Monitor either Normally Open or Normally Closed contacts
- Models features an integral SCI
- Approved by LPCB & VdS

SPECIFICATIONS

Operating Voltage	17 - 41 VDC
Quiescent Current	280 μ A
Current consumption	22 mA + 20 % (polling), 4.3 mA (both inputs active)*
Current in short-circuit	8 mA
Max. short-circuit current	1 A
Input line resistance	ON threshold <50 Ω , OFF threshold >100 K Ω
Operating Temperature	-10 °C to + 50 °C
Storage Temperature	-30 °C to + 60 °C
Max. Humidity	95%RH – Non Condensing (at 40 °C)
Weight	327g

Dual Sounder Controller



Product Dimensions

Length 157mm
Width 127mm
Depth 35mm (module including lid 79 mm)

PRODUCT CODE	DESCRIPTION
F/CH/CHQ-DSC/SCI	Dual sounder controller with SCI

CHQ-DSC/SCI is 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.

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 by LPCB & VdS

SPECIFICATIONS

Operating Voltage	17 - 41 VDC
Low Power Mode	250 μ A
Quiescent Current (typ)	340 μ A
Current consumption	22 mA \pm 20 % (polling)
Current in short-circuit	8 mA
Max. short-circuit current (Loop)	1 A
Operating Temperature	-10 °C to + 50 °C
Storage Temperature	-30 °C to + 60 °C
External supply voltage	20-28.8 VDC (24 VDC nominal)
Weight	360g

Dual Circuit Zone Controller

CHQ-DZM/SCI 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.

Features

- Single loop address
- Supports two independent zones of conventional detectors
- Both zones fully monitored for short/open circuit
- Requires an auxiliary 24 V dc supply
- Features an integral short circuit isolator
- Approved by LPCB

SPECIFICATIONS

Operating Voltage	17 – 41 V dc
Low Power Mode (typ)	110 μ A
Quiescent Current (typ)	330 μ A
Current Consumption	2 mA (Alarm) 70 mA (both zones in fire)
Capacitance on Zone	0.3 μ F Max
Resistance on Zone	50 Ω Max
Current in short-circuit	8 mA
Max short-circuit current (Loop)	1 A
Operating Temperature	-10 °C to +50 °C
Storage Temperature	-30 °C to +60 °C
Output Rating	24 V dc 8.5 mA
Weight	350g



Product Dimensions

Length 157mm
Width 127mm
Depth 35mm (module including lid 79 mm)

PRODUCT CODE	DESCRIPTION
--------------	-------------

F/CH/CHQ-DZM/SCI	Dual zone monitor with SCI
------------------	----------------------------

Mains Relay Controller

Analogue mains relay controller CHQ-MRC/SCI is a Single Input/Output Module, which provides a single, mains rated relay output for the control of such devices as dampers, extractors or plant and equipment shutdown.

Features

- Loop powered
- Single loop address
- Single mains rated relay contact
- Auxiliary monitored input
- Features an integral short-circuit isolator

SPECIFICATIONS

Operating voltage	17 – 41 V DC
Low Power Mode	(0.75s) 160 μ A
Quiescent current	350 μ A
Current consumption	22 mA \pm 20 % (polling)
Current in short-circuit	8 mA
Max. short-circuit current	1 A
Relay Contact Rating	48 V dc max, 2 A (resistive load), 250 V ac max, 5 A (resistive load)
Operating Temperature	-10 °C to +50 °C
Storage Temperature	-30 °C to +60 °C
Max. Humidity	95%RH Non Condensing (at 40 °C)
Weight	328g



Product Dimensions

Length 157mm
Width 127mm
Depth 35mm (module including lid 79 mm)

PRODUCT CODE	DESCRIPTION
--------------	-------------

F/CH/CHQ-MRC/SCI	Mains relay controller with SCI
------------------	---------------------------------

Dual Relay Controller



CHQ-DRC/SCI is a Dual Relay Controller designed to provide two general-purpose relay outputs, each output can be driven separately for control of such devices as dampers or for control of plant and equipment shutdown. The monitored input can be used for local power supply fault monitoring or as a general-purpose input.

Features

- Single loop address
- 2 Independently controlled changeover relays
- Relays contact rated at 30 V dc at 1 A
- Auxiliary monitored input
- Approved by LPCB & VdS

SPECIFICATIONS

Operating voltage	17 – 41V DC
Low Power Mode	(0.75s) 170 μ A
Quiescent Current	300 μ A
Current Consumption	22 mA \pm 20 % (polling)
Current in short-circuit	8 mA
Max. short-circuit current (Loop)	1 A
Relay Contact Rating	30 V dc max, 1 A (resistive load)
Input E.O.L. resistor	10 k Ω , \pm 5%, 0.25 W
Input threshold level	ON=470 Ω , Short cct <50 Ω , Open cct >100 k Ω
Operating Temperature	-10 $^{\circ}$ C to +50 $^{\circ}$ C
Storage Temperature	-30 $^{\circ}$ C to +60 $^{\circ}$ C
Max. Humidity	95%RH Non Condensing
Weight	343g

Product Dimensions

Length 157mm
Width 127mm
Depth 35mm (module including lid 79 mm)

PRODUCT CODE	DESCRIPTION
F/CH/CHQ-DRC/SCI	Dual relay controller with SCI

Single Zone Monitor



CHQ-SZM/SCI is a Single Zone Monitor designed to allow up to 6 conventional detectors to be interfaced to Hochiki's ESP analogue addressable system. Up to 6 Conventional Detectors Single loop address Remote LED output Fully monitored for short and open circuit faults Model features an integral short-circuit isolator Model is approved by LPCB & VdS

Features

- Single loop address
- Supports two independent zones of conventional detectors
- Both zones fully monitored for short/open circuit
- Requires an auxiliary 24 V dc supply
- Features an integral short circuit isolator
- Approved by LPCB

SPECIFICATIONS

Operating voltage	17 – 41V dc
Quiescent current	260 μ A
Current consumption	22 mA \pm 20 % (polling)
Current in short-circuit	8 mA
Max. short-circuit current	1 A
Zone voltage	15.3 V – 17.1 V
Zone resistance	50 Ω (Max)
Zone capacitance	0.3 μ F (Max)
Operating Temperature	-10 $^{\circ}$ C to +50 $^{\circ}$ C
Storage Temperature	-30 $^{\circ}$ C to +60 $^{\circ}$ C
Max. Humidity	95%RH Non Condensing (at 40 $^{\circ}$ C)
Weight	328g

Product Dimensions

Length 157mm
Width 127mm
Depth 35mm (module including lid 79 mm)

PRODUCT CODE	DESCRIPTION
F/CH/CHQ-SZM/SCI	Single zone monitor with SCI

Single Input Module

The CHQ-SIM has been 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.

Features

- Includes a single monitored input
- Small design for simple provision of a monitored input onto an ESP loop
- Flying leads for easy installation
- Addressed with TCH-B100 Hand Held Programmer
- Approved by LPCB & VdS

SPECIFICATIONS	
Operating Voltage	17 – 41V DC
Quiescent Current / Alarm Current	150 µA (at 41 V) max
Operating temperature	-10 °C to + 50 °C
Storage temperature	-20 °C to + 60 °C
Max. humidity	95% RH – Non condensing (at 40 °C)
Input Rating	Open Circuit >100 kΩ / Normal State 10 kΩ (EOL resistor provided) / Input Activation 470 Ω (EOL resistor provided) / Short Circuit 50 Ω
Weight	25g



Product Dimensions

Length 65mm
Width 42mm
Depth 15mm

PRODUCT CODE	DESCRIPTION
F/CH/CHQ-SIM	Single input module

Single Zone Monitor

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

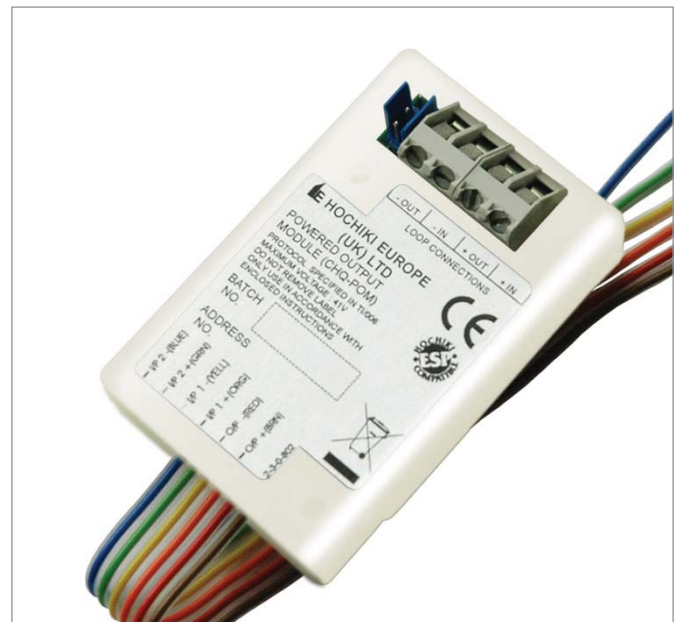
Features

- Small design, provides simple connectivity to ESP loop for third party devices, such as IFD-E Colour-coded flying leads for simple installation

Product Dimensions

- Length 65mm
- Width 42mm
- Depth 19mm

SPECIFICATIONS	
Operating voltage	17 – 41V dc
Quiescent current	200 µA (at 41 V)
Alarm Current	2.3 ~ 32.3 mA
Test Signal Voltage	14 to 30 VDC
Input Ratings	Open Circuit >100 kΩ / Normal State ~10 kΩ (resistor provided) / Input Activation ~470 Ω (resistor provided) / Short Circuit <50 Ω
Operating Temperature	-10 °C to +50 °C
Storage Temperature	-30 °C to +60 °C
Max. Humidity	95%RH Non Condensing (at 40 °C)
Weight	30g



PRODUCT CODE	DESCRIPTION
F/CH/CHQ-POM	Powered output module



Protective Cap

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

This protective cap is compatible with:-

- Isolator base range – YBO-R/SCI
- Base sounder – YBO-BS
- Base sounder beacon – YBO-BSB

Features

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

Product Dimensions

- Height 16.50mm
- Diameter 48mm

PRODUCT CODE	DESCRIPTION
F/CH/SI/CAP	Base sounder/isolator cover
F/CH/SI/CAP/WHT	Base sounder/isolator cover white



Adaptor Plate

The CHQ-ADAPTOR is an adaptor plate designed to allow the "Smart-Fix" range of modules to be housed within existing enclosures originally designed for the first generation of CHQ-OEM Modules.

The PCB component of the "Smart-Fix" module is simply removed and then clipped onto the adaptor, thus modifying the 'footprint' of the unit.

Features

- Modifies 'footprint' of "Smart-Fix" module to that of previous OEM versions
- Robust, Durable
- Features range of fixing holes
- CE Approved

Product Dimensions

- Height 81.50 mm
- Width 149mm
- Depth 13.50mm

PRODUCT CODE	DESCRIPTION
F/CH/CHQ-ADAPTER	Adapter for new CHQ modules



Surface Mounting Box

Hochiki's surface mounting box (SR/MBOX) is compatible with their analogue addressable manual call-points.

Product is compatible with:-

The Analogue addressable manual call points, models, HCP-E

Product Dimensions

- Height 93mm
- Width 89mm
- Depth 32mm

PRODUCT CODE	DESCRIPTION
F/CH/SR/MBOX	Surface mounting box red

Call Point Keys

Hochiki call point keys are specially designed call point test keys which enable users to perform a manual fire test on the call point units on a fire alarm system.

Weekly Fire Alarm Test With Hochiki Call Point Keys:-(HCP/KEY)

It is a legal requirement of any commercially owned property that a fire alarm system is tested once a week by the nominated responsible person for that system.

This can be achieved easily by activating a break glass using a call point key. These keys allow a test activation to be carried out by the user without breaking the glass element in the break glass.



PRODUCT CODE	DESCRIPTION
F/CH/HCP/KEY	Call point key - HCP (10pcs)
F/CH/SCP/KEY	Reset STI call point keys with pips - 1 piece

ASX programmer

The TCH-B100 is a hand held address programmer designed to address the ESP range of Sensors and other addressable devices such as the CHQ-BS Base Sounder.

Features

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

Product Dimensions

- Length 160mm
- Width 99.5mm
- Depth 30mm



SPECIFICATIONS	
Battery Type	9V dc
Operating Temperature	-10 °C to +50 °C
Weight	140g (Including Battery)

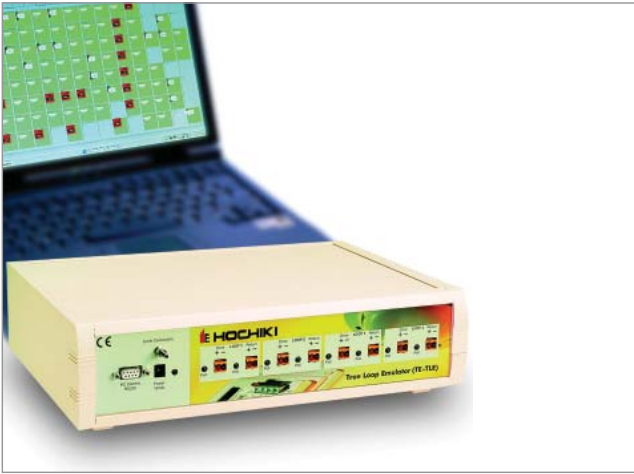
PRODUCT CODE	DESCRIPTION
F/CH/TCH-B100	ASX programmer & PL-3 lead

Did you know that Channel Technical Services offer a Free Design service?

Channel Technical Services; a division of Channel Safety Systems, offers a Design, Supply, Installation, Commissioning and Maintenance services for all Fire Alarm panels and devices.



For more information, please turn to the back page.



True Loop Emulator

The true loop emulator enables devices to be selected and 'placed' on addresses on the loop. These devices can then be activated with a number of different actions such as 'fire' or 'short-circuit' conditions, to test the panel's reactions and programming. This way, a complete fire detection system can be tested and proven before any actual hard wiring commences, saving time and resources.

Features

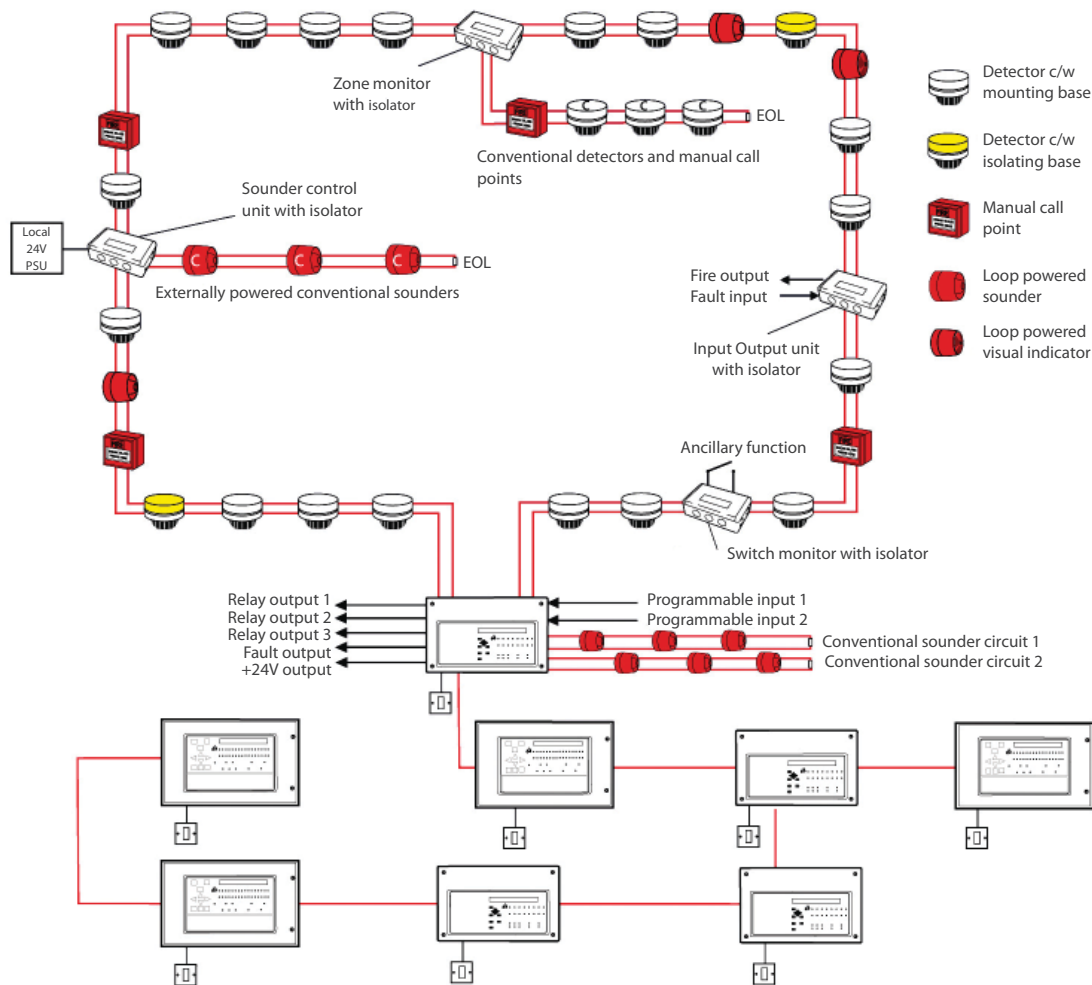
- Allows simulation of up to 4 loops of Hochiki analogue devices (127 per loop)
- System 'Cause and Effect' can be verified along with double address and short circuit simulation

SPECIFICATIONS

Input voltage	240 V ac
Output voltage	12 V dc
Operating System	Windows 95, 98, NT & 2000
Capability	Supports 8 loops (via 2 interfaces)
Weight	2.41Kg

PRODUCT CODE	DESCRIPTION
F/CH/TE-TLE	True loop emulator

Typical Installation







Please note: Isolators should be installed at intervals not exceeding 20 devices and at the building's structural fire barriers/zonal boundaries.

'Don't be afraid of fire' **FREE DESIGN SERVICE** *

Fire Alarm - Emergency Lighting - Assistance

Channel Safety Systems offers a complete Design, Supply & Commissioning service:-

-  Fire Alarm. To BS.5839. Part 1 2013
-  Emergency Lighting. To BS. 5266. Part 1 2011
-  Nurse Call Systems
-  Disabled Refuge Systems

Channel Safety Systems provide a dedicated design, supply and commissioning service for Emergency Lighting, Fire Alarm and Assistance. We offer the Contractor and Wholesaler a comprehensive service.

With over 35 years' experience working within these sectors, Channel's knowledge base is extensive and is an invaluable resource for our customers. As Industry standards are ever-changing, we make it our mission to keep abreast of regulatory and legal changes that affect our clients.

As our Project Sales Engineers and Service Engineers are based across the UK, we offer a fast and efficient service for design, site surveys, project management and all commissioning and maintenance services requirements. All our external team members are fully qualified to 'sign off' designs and Channel maintains all the relevant insurance policies which means the legal onus is on us, not the contractor.

* The design service is free on the basis of receipt of order on contract award

For all requirements please contact Channel Technical Services team on 0845 884 7000