HOCHIKI

World Class Leaders in Fire Detection Since 1918

l@titude

RANGEOVERVIEW

A life safety technology platform

Introduction

The L@titude range of fire alarm control equipment combines the very latest hardware and software to produce a control and indication system, which is powerful and sophisticated, yet simple to use and understand.

The flexibility of the L@titude platform is such that it can be re-configured to realise many other control and indication applications, with direct integration into intelligent buildings.

The L@titude platform is designed to add value to System Designers, Integrators, Service Providers and End Users/Building Owners. Developed from the ground up by Hochiki's leading design team and using some of the most advanced technology available, L@titude is designed as one of the most powerful, intelligent and technically robust fire alarm products available.

The products and services offered under the L@titude brand provide solutions to the most technically challenging applications in life safety.

The modular nature of the L@titude system allows all field wiring to be connected to a passive mother board enabling addition, re-configuration or replacement of all electronic hardware without the need to disconnect any field wiring.

This modularity also allows each panel to be customised with addressable loop detection circuits, conventional detection circuits, relay cards, additional sounder outputs or programmable I/O modules as required.

Features

► 2 to 8 loop or 2 to 16 loop versions
► 5.25 A or 10.25 A, power supply options
► 3 programmable inputs
► 5 programmable relay outputs
► Hard wired fire and fault routing inputs and outputs
► Modular electronics
► Over 4000 sub address points per panel
► Option to "invert" inputs and outputs
► Powerful, standard configuration templates
► Network up to 32 panels*
► Configurable via USB port to PC or memory stick
► Compliant with EN54-2, EN54-4, EN54-13
► 500 mA loop current
► 4 programmable sounder circuits each rated at 2.5 A
► Up to 512 programmed Input/Output via optional plug in and serially connected expansion cards
► 2 ancillary serial ports
► Supports 15 languages
► L@ti-View Graphical PC User Interface

* Please speak to your Hochiki Sales representative for more information surrounding current networking capabilities.

Company Overview

Hochiki is a wholly independent, multinational, publicly listed group of companies with over 2000 employees working across six manufacturing plants, 38 sales offices and 14 subsidiaries.

One of the world's leading manufacturers of commercial and industrial fire detection and emergency lighting solutions, Hochiki has acquired global acceptance as the benchmark for high-integrity and long-term reliability.

Hochiki's facilities in Japan, the United States of America and Europe 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 and in over 80 countries worldwide.

91%

Respondents rated product quality as either 'very good' or 'excellent'

92%

Customers stated our market reputation is 'very good' or 'excellent'

88%

Customers are most likely to recommend our products

STATS TAKEN FROM THE HOCHIKI CUSTOMER SERVICE SURVEY

Panel Features

L@titude Display

L@titude utilises a full colour, 7" 800 x 480 touch screen graphical display to provide a clear, simple and intuitive user interface.

80 character zone location and 80 character device messages allow a clear, concise description of each detection device location to be configured.

Resistive touch screen technology permits control functions to be available, even when wearing protective gloves.

User Access

Access to the L@titude menu and control functions is provided by a unique 6 digit pass code or by the optional enable control key switch.

Up to 64 individual login accounts can be configured with different profiles and access permissions.

Powerful, Network Wide Cause & Effect

L@titude cause and effect capacity supports 5000 cause and effect entries, with up to 20000 inputs and controlling 20000 outputs across the network.

The introduction of groups in L@titude allows rationalisation and simplification of the system configuration. Support for up to 5000 groups and up to 50000 devices is provided.

Power Supply Options

L@titude is available with two power supply options, each available in 230 V or 115 V mains voltages.

5.25 A (supports up to 26 Ah batteries) and 10.25 A (supports up to 45 Ah batteries).

Note: The 4 slot enclosure houses 18 Ah batteries and the 8 slot enclosure houses 33 Ah batteries

Printer Option

A 40 character front loading thermal printer prints all events as they occur. The printer can also be used to print all/selected event log entries.

Expansion Options

L@titude input/output cards can be fitted in spare slots within the panel.

The family includes:

- ▶ 8 way conventional detection board
- ▶ 4 way sounder output board
- ▶ 8 way volt free relay contact board
- ▶ 16 channel programmable input/output board

Backlight Control

The built in light sensor allows the display backlight to be configured to follow the ambient light levels or automatically dim after a period of inactivity.

Event Log

A 10000 entry event log records all system activity to 1 second resolution. The log is held in secure memory and is retained when power is removed from L@titude.
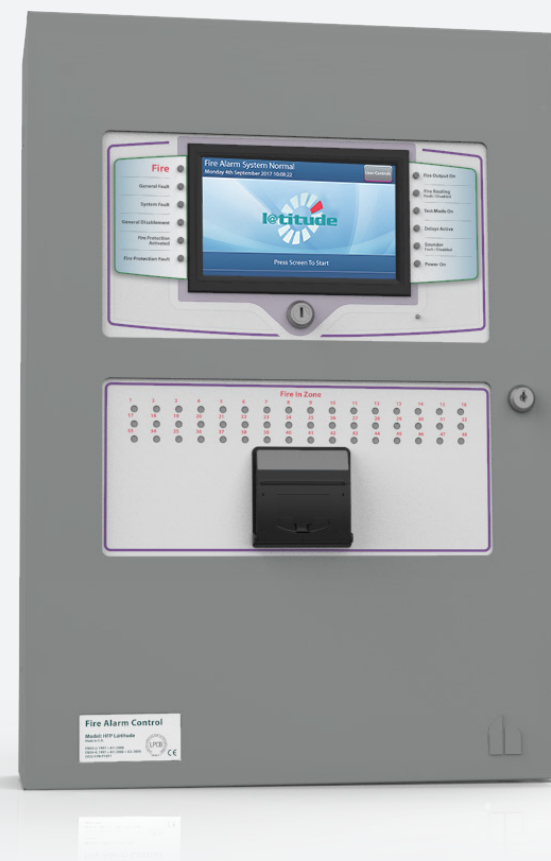
Powerful filtering allows the log to be sorted by event type, between dates, by zone, by panel and by address.

Using the Loop Explorer 2 configuration program, the event log can be downloaded and stored as a comma separated by values (csv) format.

Zone Indicators

Up to 144 zone indicators or 48 zone indicators plus panel printer are available. L@titude supports up to 2000 detector zones and zone indicators.

Panel Technical Specifciations

2-8 Loop (4 Slot) Enclosure

Size Standard	-	420mm (W) x 590mm (H) x 150mm (D)
Size Deep	-	420mm (W) x 590mm (H) x 195mm (D)
Construction	-	1.5mm mild sheet steel
Cable entry	-	28 knockouts top, 18 knockouts back, 1 knockout each side
Battery Capacity	-	Up to 18 Ah

2-16 Loop (8 Slot) Enclosure

Size Deep	-	540mm (W) x 720mm (H) x 212mm (D)
Construction	-	1.5mm mild sheet steel
Cable entry	-	50 knockouts top, 26 knockouts back, 1 knockout each side
Battery Capacity	-	Up to 33 Ah

All Models

Finish	-	Epoxy powder coated
Colour - Lid and Box	-	BS 00 A 05 fine texture
Power supply voltage	-	230 VAC or 115 VAC
Power supply rating at 24 VDC	-	5.25 A (charges up to 26AH) or 10.25 A (charges up to 45AH)
Display	-	Full colour 800 x 480 LCD with resistive touch screen and automatic backlight dimming
Printer	-	40 coloumn, front loading thermal (optional)
Zone LED indicators	-	Up to 3 banks of 48 (144) as standard
Software zones	-	2000

All Models

Software groups	-	5000
Event log	-	10,000 events, 1 second resolution. Filterable and printable.
Detection loops	-	2 to 16 added 2 at a time (K758 dual loop cards)
Detection loop current	-	500 milliamps each
Sounder circuits	-	4 each rated at 2.5 A, 24 VDC
Programmable auxiliary	-	24 V supply 1
Auxiliary 24V supply 1	-	24 VDC fused at 500 milliamps
Auxiliary 24V supply 2		24 VDC fused at 500 milliamps
Default relays	-	Fault, Fire, Alarm, Programmable 1 and Programmable 2 (all re-programmable)
Programmable inputs	-	3, activated by volt free contacts
Auxiliary Serial port A	-	RS232 programmable
Auxiliary Serial port B	-	RS232 programmable
Ancillary I/O board serial port	-	RS485 programmable
Fire Routing (IFAM) serial port	-	RS485 programmable
USB host port	-	USB type A
USB device port	-	USB type B
Fire routing output	-	Monitored
Fire routing input	-	Monitored
Fault routing output	-	Monitored
Fault routing input	-	Monitored
Extinguisher output	-	Monitored
Extinguisher input	-	Monitored
Extinguisher fault input	-	Monitored.

System Architecture

Comes as standard with:

1 Loop Card
(Each card provides 2 Loops per card)

With space for up to 4 Loop Cards in the 2-8 loop model,
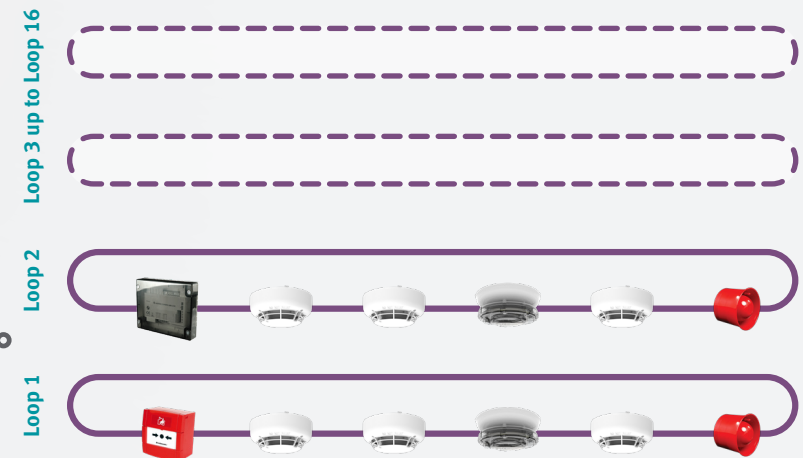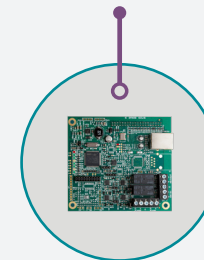and space for up to 8 Loop Cards in the 2-16 loop model.

**Network Card allows 32
L@titude Repeaters/Panels to be
added to the network.**

Compatible I/O Boards include:

▸ 16 Channel I/O
▸ 8 Way Relay
▸ 8 Way Conventional Zone
▸ 4 Way Sounder

Loop 3 up to Loop 16

Loop 2

Loop 1

**Each loop is capable
of hosting upto
127*¹ addresses**

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*¹Please speak to your Hochiki representative for more information surrounding current networking capabilities *²BMS systems using LonWorks, Modbus or BACnet protocols coming soon.
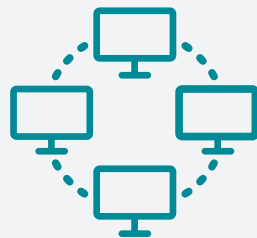
System Enhancements

L@titude Vision

The L@titude Vision allows a full display and optional control of the L@titude fire alarm control panel from a small and unobtrusive local control station network repeater.

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: Panel Network
- ▶ Low current, 24 VDC powered
- ▶ Slim compact construction
- ▶ Configurable functionality
- ▶ Configurable languages
- ▶ Optional Enable Key-switch.

L@titude Virtual Resource

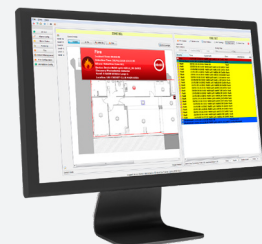### VR Access
Access data from all your systems

VR Vault
Secure document vault

VR Service
Complete service management utility with autodata transfer

VR Print
Eliminates need for panel mounted printers

L@ti-View

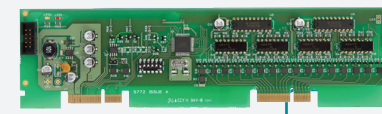**Powerful and Sophisticated Software Solution**

No situation requires a more urgent response than a fire event. On a large public site, especially during busy periods, public safety is paramount.

A powerful and sophisticated software solution, L@ti-View gives building managers complete monitoring and control over fire detection, providing a comprehensive fire risk and incident management system. Where time is of the essence, site managers can respond quickly and efficiently to a fire event. L@ti-View plays a crucial role in safeguarding people, vitally important information and property.

Features

- ▶ Supports dual screens, allowing a dedicated screen for the 2D location images and a separate screen for listing active events and system management.
- ▶ Powerful event log filtering and reporting.
- ▶ Manage the state of the fire system using a combination of graphical images and system controls.
- ▶ Full map navigation using configurable buttons or map areas.
- ▶ Perform device and zone disablements/enablements.

Simple Plug-IN

Media Gateway card allows connection to VR Nimbus, Vizulinx and L@ti-view[*2]

The Media Gateway Panel Module provides connectivity to monitoring centers using IP (Sur-Gard), or dial-up connectivity. The Media Gateway may also be used to meet integration application requirements.

Features

- ▶ Simple 'plug-in' connection to the L@titude Fire Alarm Control Panel technology
- ▶ Dual Line Dialler capability (SIA or Contact ID)
- ▶ IP capable (Sur-Gard Fibro)
- ▶ Programmable to report via Point or Zone
- ▶ Programmable for back-up reporting
- ▶ Report codes can be customised by user
- ▶ Standard RJ45 connection port
- ▶ Low current consumption.

EN 54 - Part 13 Approval

The L@titude control panel and its associated addressable fire detection devices have gained EN 54-13 system approval.

EN 54 standards outline the requirements and mandatory tests for different components of fire detection and alarm systems, with most concerning individual product types.

EN 54-13, however, commonly known in the industry as 'Part 13', is concerned with the ability and reliability of individual components working together in a larger fire detection system.
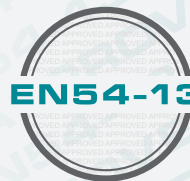
As the complexity of fire detection and alarm systems increases, it's becoming more difficult for installers to ensure that all component parts within firedetection and alarm systems work together when incorporated into one system.

As a result, installers often have to choose components from other sources to fit within their preferred system.

While not ratified across all of Europe or adopted by the UK, Part 13 is still considered a benchmark of a system's performance and reliability in all territories, guaranteeing optimal performance at all times.

Throughout the EU, Part 13 is being increasingly used by test houses and certification bodies to assess the compatibility of individual components, which may be CE marked through compliance with other EN 54 series standards.

In 2021 The L@titude system also acquired Denmark's DBI accreditation, based on the pre-existing Part 13 approval.

EN 54 - Part 13 Approved Intelligent Fire Detection Devices

Sensors

ACB-EW
An Intelligent IP67 Rated Waterproof Multi-Heat Sensor

ACC-E
An Intelligent Multi Sensor

ACD-E
Addressable Multi Sensor with CO detection

ALN-E
An Intelligent Photoelectric Smoke Sensor

ATJ-E
An Intelligent Multi-Heat Sensor

Audio / Visual

CHQ-CB
An Intelligent Loop-Powered Ceiling Beacon

CHQ-WB
An Intelligent Loop-Powered Wall Beacon

CHQ-WS2
An Intelligent Loop-Powered Wall Sounder

CHQ-WSB2
An Intelligent Loop-Powered Wall Sounder Beacon

YBO-BS
An Intelligent Loop-Powered Base Sounder

YBO-BSB2
An Intelligent Loop-Powered Base Sounder Beacon

CWST-S5*
An Conventional Beacon

CWST-W5*
An Conventional Waterproof Beacon

Modules

CHQ-DIM2(SCI)
An Intelligent Dual Input Module

CHQ-DRC2(SCI)
An Intelligent Dual Relay Controller

CHQ-DSC2(SCI)
An Intelligent Dual Sounder Controller

CHQ-DZM(SCI)
An Intelligent Dual Zone Module

CHQ-FTM
An Intelligent Dual Input 4-20 mA Module

CHQ-MRC2(SCI)
An Intelligent Fail Safe Mains Relay Module

CHQ-PCM(SCI)
An Intelligent Plant Control Module

CHQ-POM
Plant Control Module

CHQ-SIM
Single Input Module

CHQ-SOM
Single Output Module

CHQ-SZM2(SCI)
An Intelligent Single Zone Module

Call Points

HCP-E(SCI)
An Intelligent Manual Call Point

SCP-W(DPS)
An Intelligent Weatherproof 'Reset' Call Point

HCP-W(SCI)
An Intelligent IP67 Weatherproof Manual Call Point

Bases

YBN-R/3(SCI)
A Common Mounting Base

YBO-R/SCI
A Common Mounting Base

For a more expanded list including specific device codes, available colour options or past generations of modules please contact your RSM.
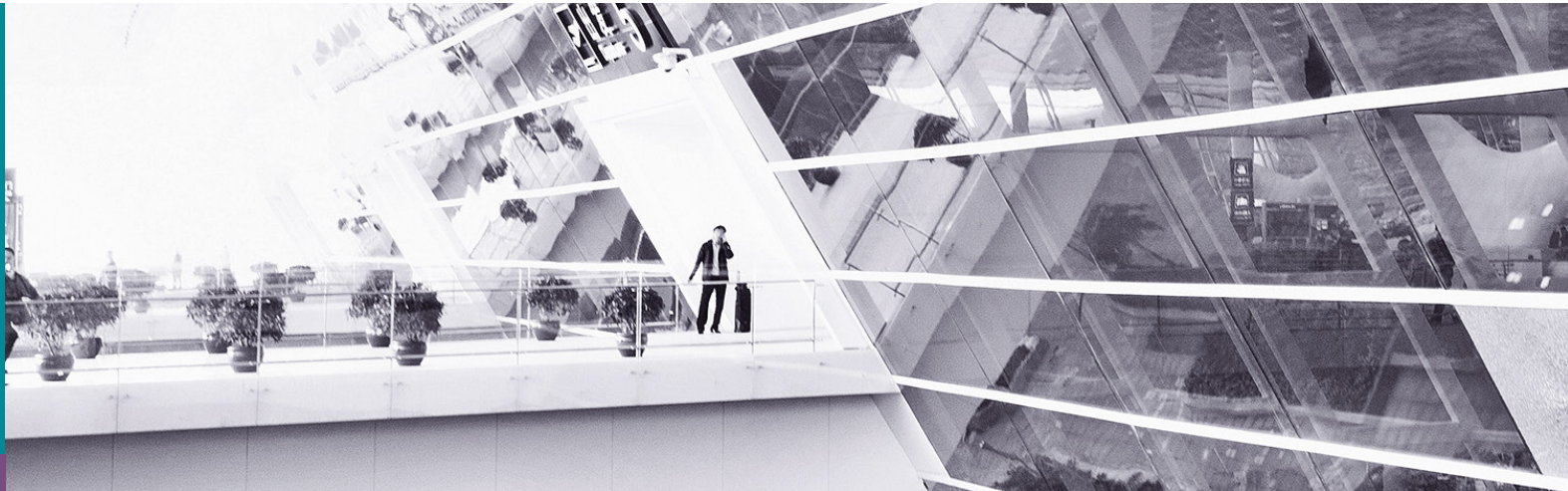
LPCB®
delivered by bre

DBI CERTIFICATION

* In conjunction with a suitable zone monitor module.

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