HOCHIKI

World Class Leaders in Fire Detection Since 1918

L@titude

Life Safety Platform

Range Overview

L@titude

Life Safety Platform

INTRODUCTION

The Latitude 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 Latitude platform is such that it can be re-configured to realise many other control and indication applications, with direct integration into intelligent buildings.

The Latitude 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, Latitude is designed as one of the most powerful, intelligent and technically robust fire alarm products available.

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

The modular nature of the Latitude 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 4,000 sub address points per panel
- Option to "invert" inputs and outputs
- Hotel mode
- Support for and compliant with BS 7273-4
- Enhanced Cause & Effects programming
- Powerful, standard configuration templates
- Network up to 127 panels*
- Configurable via USB port to PC or memory stick

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

EN FEATURES

- 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 38 languages

UL & FM FEATURES

- UL Listed (Tenth Edition) and FM Approved
- 400 mA loop current
- Programmable NACs; 4 Class B or 2 Class A, all with internal synchronisation
- Lati-View Graphical PC User Interface.

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.

91%
of customer reviews rated our product quality as "VERY GOOD" or "EXCELLENT"

88%
of our customers are extremely likely to recommend our products based on quality

92%
of our customers rated us as VERY GOOD or EXCELLENT.

Statistics from the Hochiki customer service survey

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.

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Features

LATITUDE DISPLAY

Latitude 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 Latitude 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

Latitude cause and effect capacity supports 5,000 cause and effect entries, with up to 20,000 inputs and controlling 20,000 outputs across the network. The introduction of groups in Latitude allows rationalisation and simplification of the system configuration. Support for up to 5,000 groups and up to 50,000 devices is provided.

POWER SUPPLY OPTIONS

Latitude 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 (or 26 Ah for the 4 slot enclosure, and 45 Ah batteries for the 8 slot enclosure if batteries are inserted on their ends).

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

Latitude 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 Latitude.

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. Latitude supports up to 2,000 detector zones and zone indicators.

LPCB

DBI CERTIFICATION

UL

BOSEC

FM APPROVED

EN 54 - Part 13 Approval

The Latitude 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 fire detection 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 Latitude system also acquired Denmark's DBI accreditation, based on the pre-existing Part 13 approval.

In 2023 the Latitude system also acquired Belgium's BOSEC accreditation, also based on the pre-existing Part 13 approval.

L@titude

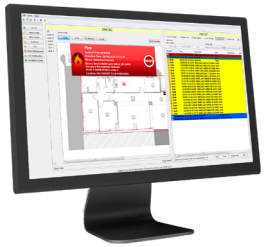
System enhancements

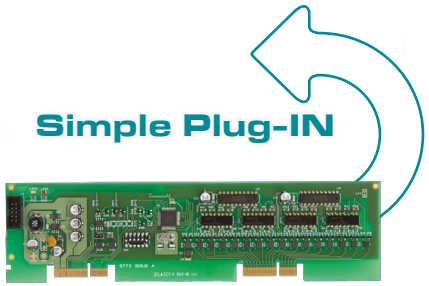
Latitude Vision Network Repeater

The Latitude Vision Network Repeater allows a full display and optional control of the Latitude 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.





Lati-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, Lati-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. Lati-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.

Media Gateway card allows connection to Vizulinx and Lati-view*

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 Latitude 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.

**BMS systems using LonWorks, Modbus or BACnet protocols coming soon.*

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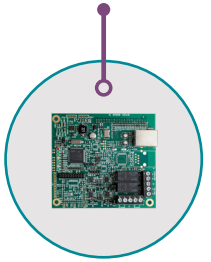
EN system architecture

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.

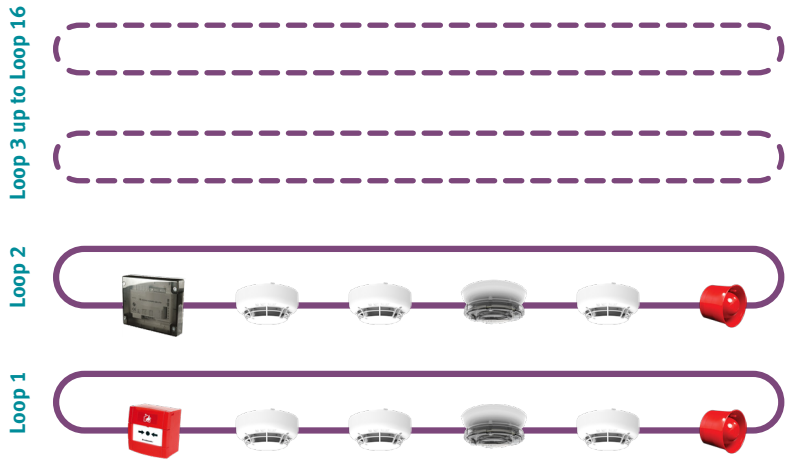
Network Card allows 127 Latitude Repeaters/Panels to be added to the network.



Compatible I/O Boards include:

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

Each loop is capable of hosting upto 127*addresses



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

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UL/FM system architecture

FireNET Latitude
Network Vision Annunciator
Configurable Fire Alarm Annunciator

FireNET Latitude
Fire Alarm Control Panel
2 - 16 Loop Analog Addressable Control Panel

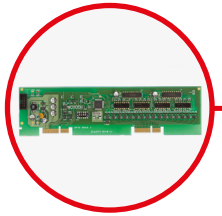
Loops 2 -16 if fitted

SLC Devices

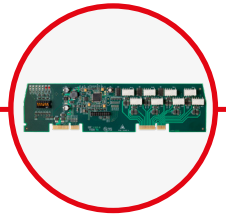
Loop 1

Double Aperture with Zone LED Module and Printer model shown
Standard cabinet and Deep cabinet models available

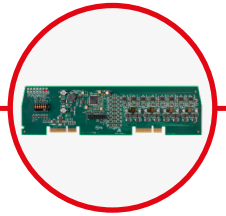
Notification Appliance Circuits



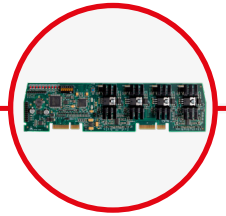
Media Gateway Panel Module



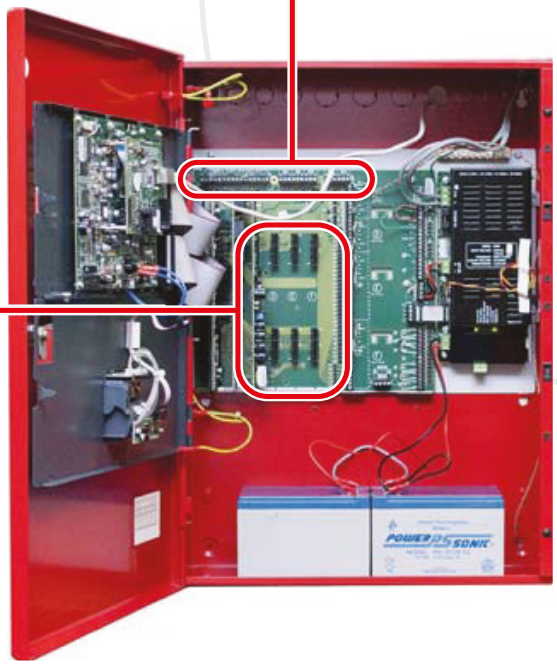
8 Channel Relay Panel Module



8 Way Conventional Module

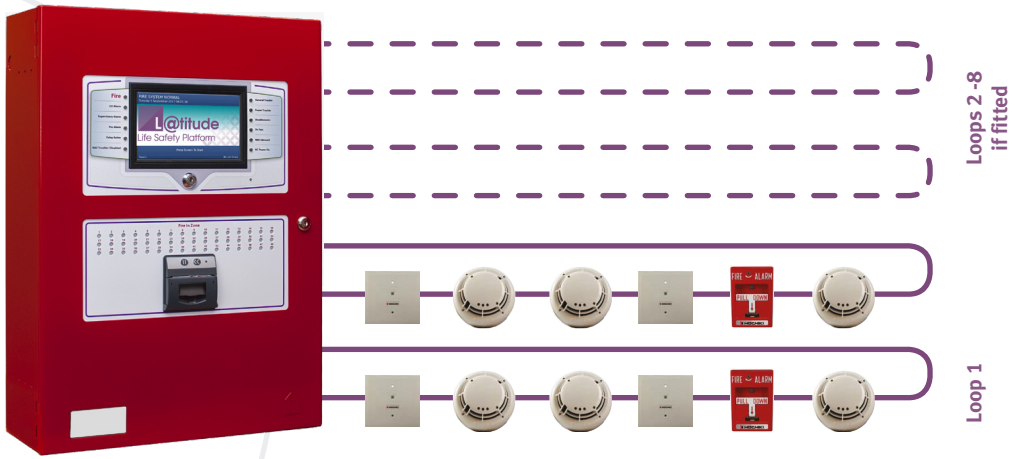


4 Way Sounder Board



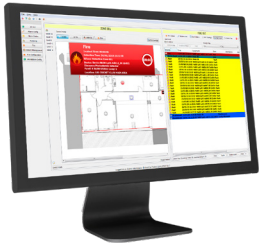
Many features are found on both EN and UL. Speak to your Hochiki representative for more information surrounding current capabilities.

Double Aperture with Zone LED
Module and Printer model shown.



FireNET Latitude
Fire Alarm Control Panel

2 - 8 Loop Analog Addressable Control Panel



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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.

Any network segment or combination of segments can be connected with fiber optic cable or copper wire.

16 Notification I/O Interface Card

The 16 Channel I/O Interface enhances the versatility of the alarm system by providing additional input and output capabilities to the panel.

Inputs or outputs can be selected for up to 16 individual channels, and are configured in the same way as devices connected to addressable loops of the panel. The 16 Channel I/O Interface can be configured to contribute or act upon cause and effect logic.

EN specifications

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 26 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 45 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 26 Ah) or 10.25 A (charges up to 45 Ah)
Display	-	Full colour 800 x 480 LCD with resistive touch screen and automatic backlight dimming
Printer	-	40 column, front loading thermal (optional)
Zone LED indicators	-	Up to 3 banks of 48 (144) as standard
Software zones	-	2,000

All Models

Software groups	-	5,000
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.

UL/FM specifications

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, 19 knockouts back, 1 knockout each side
Battery capacity	-	Up to 28 Ah (Power Sonic PS-12280)

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, 25 knockouts back, 1 knockout each side
Battery capacity	-	Up to 40 Ah (Power Sonic PS-12400)

All Models

Finish	-	Epoxy powder coated
Colour - Lid and Box	-	Red, Gray, or Black Control Plate - RAL7016
Power supply voltage	-	5.25 A (charges up to 60 Ah) or 10.25 A (charges up to 100 Ah)
Display	-	Full colour 800 x 480 LCD with resistive touch screen and automatic backlight dimming
Software zones	-	2,000
Software groups	-	5,000
Cause and Effects	-	5,000

All Models

Event log	-	10,000 events, 1 second resolution. Filterable and printable.
Detection loops	-	2 to 16 added 2 at a time (S758 dual loop cards)
Detection loop current	-	400 milliamps each
Auxiliary power	-	2; each rated at 900 mA
NACs	-	4; each rated at 2.5 A. Class B or 2 Class A
Programmable relay outputs	-	5; 30 VDC 1 AMP
Programmable inputs	-	3; designed to be activated by voltage-free contacts
Network Connections	-	Optional network card provides communication for networking 127 fire control panels
NAC Synchronization	-	Internal Support of System Sensor, Wheelock, Gentex and Amseco protocols
Primer (optional)	-	40 column, front-loading thermal
Zone LED indicators (optional)	-	Up to 3 banks of 48 (144) as standard.
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.

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