HOCHIKI

World Class Leaders in Fire Detection Since 1918

FireNET L@titude

SYSTEMSCATALOGUE

Analogue Addressable Fire Alarm Control Panel

L@titude
Life Safety Platform

Analogue Addressable Fire Alarm Control Panels

Single Aperture

Double Aperture
Includes Zone LED Module and Printer

Standard Features

- UL Listed (Tenth Edition) and FM Approval
- 2 to 8 loop or 2 to 16 loop versions
- 400mA loop current
- 400 sub-address points per loop (800 per loop module)
- 4 programmable NACs; Class B or 2 Class A
- Multiple internal NAC synchronization protocols
- 5.25 A or 10.25 A power supply options
- 3 programmable inputs and 5 programmable relay outputs
- 7 inch, full-color resistive touch screen with intuitive user interface
- Up to 24 programmable soft “function keys”
- Up to 64 user login accounts.
- Positive Alarm Sequence
- Pre-Signal
- Alarm Verification
- Drift Compensation
- CO Alarm
- Hard-wired fire and trouble routing inputs and outputs
- Modular and expandable electronics
- Option to “invert” inputs and outputs
- 5000 programmable cause and effects; over 50,000 inputs and outputs
- Can be networked with programmable functionality
- Programming via USB or PC
- Lati-View Graphical PC User Interface - coming soon!

Product Overview

The all new FireNETLatitude product range of fire alarm control equipment combines the very latest hardware and software to produce a control and indication system, which is powerful, sophisticated, but also user-friendly and intuitive. The highly flexible FireNET Latitude platform can be configured to realize many other control and indication applications, with direct integration into intelligent buildings.

Moving away from the simple, price-driven, competitive model used by most manufacturers today, the FireNET Latitude concept is designed to add value to System Designers, Integrators, Service Providers, and end users. Developed from the “ground up” using the most advanced technology available, FireNET Latitude is one of the most powerful, intelligent, and technically robust fire alarm products available.

Not only do the products and services offered under the FireNET Latitude brand provide solutions to the most technically challenging applications in life safety, FireNET Latitude will deliver added value, market advantage, and a competitive edge to your business.

EN Panel Technical Specifciations

2 to 8 LOOP (4 SLOT) ENCLOSURE

Size	**Standard Cabinet** - 420mm (W) x 590mm (H) x 153mm (D) 16.5in (W) x 23.2in (H) x 6in (D) **Deep Cabinet** - 420mm (W) x 590mm (H) x 203mm (D) 16.5in (W) x 23.2in (H) x 8in (D)
Construction	Mild sheet steel enclosure, 1.5 mm
Cable Entry Knockouts	**Standard Cabinet** - 28 top, 19 back, 1 per side, 2 bottom **Deep Cabinet** - 38 top, 19 back, 1 per side, 2 bottom
Optional Semi-Flush Mounting Kit	Semi-Flush Mounting Collar Kit KM5FCRD - Red KM5FCGY - Gray KM5FCBS - Black
Battery Capacity	**Standard Cabinet** - Up to 28 Ah (Power Sonic PS-12280) **Deep Cabinet** - Up to 40 Ah (Power Sonic PS-12400)
Zone LED Indicators (OPTIONAL)	Up to 3 banks of 48 (144) as standard

2 to 16 LOOP (8 SLOT) ENCLOSURE

Size	**Standard Cabinet** - 540mm (W) x 720mm (H) x 160mm (D) 21.3in (W) x 28.3in (H) x 6.3in (D) **Deep Cabinet** - 540mm (W) x 720mm (H) x 212mm (D) 21.3in (W) x 28.3in (H) x 8.3in (D)
Construction	Mild sheet steel enclosure, 1.5 mm
Cable Entry Knockouts	**Standard Cabinet** - 38 top, 25 back, 2 per side, 2 bottom **Deep Cabinet** - 50 top, 25 back, 2 per side, 2 bottom
Battery Capacity	**Standard Cabinet** - Up to 28 Ah (Power Sonic PS-12280) **Deep Cabinet** - Up to 40 Ah (Power Sonic PS-12400)

ALL MODELS

Finish	Epoxy powder coated
Color	Lid & Box ●Red (RAL3002) ●Gray (BS 00 A 05) ●Black (RAL9005) Fascia ○Signal White (RAL9003)
Power supply voltage	120 V AC or 240 V AC
Power supply rating at 24V DC	5.25 A (charges up to 60 Ah) 10.25 A (charges up to 100 Ah)
Display	Full-color 800 x 480 LCD with resistive touch screen and automatic backlight dimming.
Software zones	2000
Software groups	5000
Cause and Effects	5000
Event log	10,000 events, 1 second resolution. Filterable and printable.
Detection loops	2 - 16, added 2 at a time via dual loop panel module (S758)
Detection loop current	400 mA each
AUX 24V Output	2; each rated at 900 mA
NACs	4; each rated at 2.5 A. Max 5A combined output for all channels. Class B or 2 Class A.
Programmable Relay Outputs	5; 30 V DC 1 Amp
Programmable Inputs	3; designed to be activated by voltage-free contacts
Network Connection	Optional network card provides communication for networking fire control panels
NAC Synchronization	Internal Support of System Sensor, Wheelock, Gentex, and Amseco protocols
Printer (OPTIONAL)	40 column, front-loading thermal

Latitude Network Vision Annunciator

Analogue Addressable Fire Alarm Control Panels

Standard Features

- Full color 7" (800 x 480 pixel) interface
- Replicates information displayed at the FACP
- Automatic display brightness adjustment
- Internal buzzer
- Connects via control panel network terminals
- Low current, 24V DC powered
- Configurable functionality
- Enable key-switch
- Sheet steel enclosure
- Surface or semi-flush enclosure options available

The FireNET Latitude Network Vision Annunciator is the most qualified annunciator on the market. It is a full-color graphical display and touchscreen and represents the most versatile annunciator for life safety systems available today. The Annunciator is a full-function fire alarm repeater that is configurable and application-flexible for use in a variety of applications, such as hospital nursing stations and elevator alarms.

FireNET Latitude Network Vision Annunciators can be configured to fully replicate fire control panel functionality, or to operate as simple, display-only devices for applications where access to fire alarm controls are inappropriate.

Standard Features

The new 7th edition standard for smoke detectors came into effect at the end of May 2020. The changes in this edition standard are major in scope, most notably the addition of three new fire tests:

- Detection of flaming polyurethane foam
- Detection of smoldering polyurethane foam
- Reduction of nuisance alarms

In addition to the fire tests, there are over 250 other changes to the current standard. Our fundamental research has determined that a new generation of detector is essential to achieve compliance.

Hochiki has concluded that single-sensor technology used today will not be able to comply with the new standards.

Substantial changes have been engineered to the detector construction both inside and out. These changes include air flow, smoke chamber size and shape, sensing technology, and firmware algorithm updates.

Software

Loop Explorer 2 Configuration Software

Standard features

- Highly configurable
- Enables customization of languages, color schemes, and company logos
- Powerful standard templates allow rapid configuration
- Cause and effect allows the configuration of large, complex networks with ease

Loop Explorer 2 (LE2) is an easy-to-use application for configuring even the most complex networks. LE2 is highlyconfigurable, enabling customization of languages, color schemes, and company logos, and allowing exposure to single or multiple detector protocols to be set for each user.

Additional logical operators for NOT and TIME functions for use in cause and effects, and the inclusion of 'groups' (collections of devices not necessarily in the same zone) increase the power and flexibility of LE2. LE2 can also be used to select the appropriate detection loop protocol. Powerful standard templates and automatic cause and effect generation allow rapid configuration of common fire system configurations for applications such as high-rise buildings or alarm verification from hotel rooms.

Cause and effect allows the configuration of large, complex networks with ease. Access to LE2 is via a secure web server, so users with the appropriate credentials have permanent access to the latest version ensuring that the most recent enhancements are always available. LE2 can be customized by the user so that language or specific terminology can be set as defaults for all systems that are configured using LE2. Custom changes can be stored on our servers, again ensuring that all authorized users have access to the latest customized version.

AMX Graphics Application

Standard features

- Monitor multiple alarm networks
- Supports multiple PC connections through TCP/IP groups
- Text based alarm reporting or full device level graphics capability
- Remote control of alarm systems
- Clear and Concise action messages for each alarm event
- Fully configurable using engineer access
- Powerful event log filtering and reporting
- Configurable control buttons
- Full site map navigation
- Visibility of device analogue levels
- Perform device and zone disablements/enablements
- Fully compatible with Hochiki's Latitude fire control panel

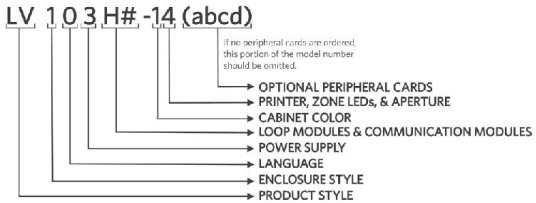
AMX can automatically switch to the area on a site map to where a fire device has been activated to quickly view an event and begin immediate investigation. Information displayed can be provided to the emergency services to direct them to the required location.

AMX stores all significant information into logs providing historical information on events, system errors, user history etc.

Up to 2,000 user accounts can be created in AMX each with unique login details. Each user can be configured with access to the required functions associated with their role.

AMX can support multiple workstations using existing IP infrastructure.

Panel Model Numbers



Panel Options	Valid Entries	Description
Product Style	LA	FireNET L@titude Fire Alarm Control Panel
	LF	FireNET L@titude Network Vision Annunciator
Enclosure Style	1	4 Slot Standard Enclosure
	2	4 Slot Standard Plex-Door Enclosure
	3	4 Slot Deep Enclosure
	4	4 Slot Deep Plex-Door Enclosure
	5	4 Slot Extra Deep Guard Station Enclosure - FUTURE ENHANCEMENT
	6	4 Slot 19" Rack Mount Enclosure - FUTURE ENHANCEMENT
	7	8 Slot Standard Enclosure - 16 Loop
	8	8 Slot Standard Plex-Door Enclosure - 16 Loop
	9	8 Slot Deep Enclosure - 16 Loop
	A	8 Slot Deep Plex-Door Enclosure - 16 Loop
	C	Annunciator
Language	0	English
	1	Portuguese
	2	Spanish
	3	Taiwanese
Power Supply	0	None
	1	5.25 A 115V
	2	5.25 A 230V
	3	10.25 A (auto-voltage sensing)
Loop Modules & Communication Modules	00	Not Fitted
	NC	Network Module only (Network Vision Annunciator)
	H#	2-Loop Panel Module, Hochiki Protocol
	I#	2-Loop Panel Module, Hochiki Protocol, and Media Gateway™
	J#	2-Loop Panel Module, Hochiki Protocol, and Network Module
	K#	2-Loop Panel Module, Hochiki Protocol, Network Module, and Media Gateway™
Cabinet Color	1	Red (RAL3002)
	4	Gray (BS 00 A 05)
	6	Black (RAL9005)
Printer, Zone LEDs & Aperture	0	No Printer / No Zone LEDs
	1	No Printer / No Zone LEDs, Blank 2nd Aperture
	3	Printer / No Zone LEDs
	4	Printer / 48 Zone LEDs
	5	No Printer / 48 Zone LEDs
	6	No Printer / 96 Zone LEDs
	7	No Printer / 144 Zone LEDs
Optional Peripheral Cards	a	16 Channel I/O Panel Module (S772) - FUTURE ENHANCEMENT
	b	8 Channel Relay Panel Module (S791)
	c	8 Channel Conventional Zone Module (S792) - FUTURE ENHANCEMENT
	d	4 Channel NAC Module (S793) - FUTURE ENHANCEMENT]

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Optional Panel Peripherals

DUAL LOOP PANEL MODULE (S758)

The Dual Loop Panel Module monitors loop device status and provides status to the panel processor. It holds device configurations and operates in a standalone manner when catastrophic failures occur.

16 CHANNEL I/O INTERFACE CARD (S560)

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.

NOTE *Mounting cabinet K0770-XX required.*

MEDIA GATEWAY PANEL MODULE (S788)

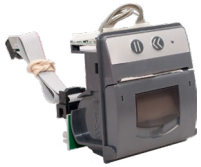
The Media Gateway Panel Module provides connectivity to monitoring centers using IP (Sur-Gard), or dial-up connectivity. The Media Gateway may also be used to meet integration application requirements.

8 CHANNEL RELAY PANEL MODULE (S791)

The 8 Channel Relay Panel Module has 8 voltage-free changeover relay contacts, each of which can be individually programmed. 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 five standard relay outputs, such as signaling to other systems or plant control.

NETWORK MODULE (S723)

The FireNET Latitude Network Module provides enhanced highspeed communication for networking fire control panels. The network provided by this module can support combinations of panels and annunciators. FireNET Latitude Fire Alarm Control Panels can receive events from other panels in the network. The Class X networking used in conjunction with the Network Module provides tolerance against open and short circuit trouble conditions.



PRINTER (S768)

The printer is an optional feature for printing fire system events as they occur. The printer is located on the fascia, below the Zone LEDs (if present). It is a thermal printer, printed on heatsensitive paper rolls and never requires replacement ink. A trouble message is reported when the paper runs out. The printer includes a front-loading feature for replacing paper rolls.

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Optional Panel Peripherals

ZONE LED MODULE (S771)

The Zone LED module contains 48 LEDs and is connected to the LCD Main Processor Board of the FireNET Latitude Fire Alarm Control Panel. A maximum of three Zone LED modules can be connected to provide the fascia with 144 Zone LED indicators.

5.25 A POWER SUPPLY (S406)

5.25 Amp power supplies are capable of charging batteries with capacities ranging from 7 to 60 Ah. The power supply accepts input voltages of 115 VAC or 230 VAC. The 5.25A power supply supplies 4A for panel power and 1.25A for battery charging.

10.25 A POWER SUPPLY (S408)

10.25 Amp power supplies are capable of charging batteries with capacities ranging from 12 to 100 Ah. The power supply accepts input voltages of 115 VAC or 230 VAC. The 10.25A power supply supplies 8A for panel power and 2.25A for battery charging.

4 CHANNEL NAC PANEL MODULE (S793)

FUTURE ENHANCEMENT

Additional NAC output capability can be added to by using 4 Channel NAC Modules. These boards have 4 supervised NAC outputs, each of which can be individually programmed. The circuits can be configured for class A or B operation. These circuits can be configured to act upon cause and effect logic.

8 CHANNEL CONVENTIONAL ZONE PANEL MODULE (S792)

FUTURE ENHANCEMENT

The 8 Channel Conventional Zone Panel Module has 8 supervised detection circuits (Class B). Each circuit can support up to 20 conventional detectors and approved devices. Individual circuits may be configured for trigger resistor or short circuit activation. Thesecircuits may be used for any of the standard input actions and can be configured to contribute to cause and effect logic. Each pair of circuits can be joined to form a single Class A configuration.

16 CHANNEL I/O INTERFACE PANEL MODULE (S772)

FUTURE ENHANCEMENT

The 16 Channel I/O Interface Panel Module will provide the same functionality as the 16 Channel I/O Interface Card, with the convenience of a plug-in module.

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Popular Configurations - 4 SLOT MODELS

4 SLOT BASE MODEL

The base model of the FireNET Latitude fire alarm control panel is equipped with a generous quantity of notification appliance circuits, relays, and inputs, and can be further increased by the addition of up to four I/O panel modules.

The large graphical touch screen provides a clear and intuitive interface requiring minimal training. Up to 80 character zone location and device messages allow a precise description of each detection device location to be configured. The resistive touch screen allows controls to be available, even when wearing protective gloves.

Access to the menu and control functions is provided by a unique passcode or by the optional key switch. Up to 64 individual login accounts can be configured, with different profiles and access permissions.

All models of the FireNET Latitude fire alarm control panel are available in 3 colors (red, gray, or black), with an optional deep cabinet, and two power supply options. Refer to the datasheet above for specific details on these options.

4 SLOT DOUBLE APERTURE WITH ZONE LEDS AND PRINTER

This configuration is equipped with everything that the single aperture panel has, but also has optional zone LEDs and an optional printer.

The zone LED module contains 48 LEDs and is connected to the LCD main processor board of the FireNET Latitude fire alarm control panel. A maximum of three zone LED modules can be connected to provide the fascia with 144 zone LED indicators.

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

4 SLOT DOUBLE APERTURE WITH PLEX-DOOR

This Plex-Door version of the FireNET Latitude panel is equipped with a plexiglass window to meet the requirements of some major cities. Access level 2 is enabled when the outer door of the enclosure is unlocked.

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Popular Configurations - 8 SLOT MODELS

8 SLOT BASE MODEL

The base model of the FireNET Latitude fire alarm control panel is equipped with a generous quantity of notification appliance circuits, relays, and inputs, and can be further increased by the addition of up to eight I/O panel modules.

The large graphical touch screen provides a clear and intuitive interface requiring minimal training. Up to 80 character zone location and device messages allow a precise description of each detection device location to be configured. The resistive touch screen allows controls to be available, even when wearing protective gloves.

Access to the menu and control functions is provided by a unique passcode or by the optional key switch. Up to 64 individual login accounts can be configured, with different profiles and access permissions.

All models of the FireNET Latitude fire alarm control panel are available in 3 colors (red, gray, or black), with an optional deep cabinet, and two power supply options. Refer to the datasheet above for specific details on these options.

8 SLOT DOUBLE APERTURE WITH PRINTER

This configuration is equipped with everything that the base model panel has, but also has an optional printer.

The FireNET Latitude Printer is a 40 character front loading thermal printer that prints all events as they occur. The printer can also be used to print all/selected event log entries.

8 SLOT DOUBLE APERTURE WITH ZONE LEDS AND PRINTER

This configuration is equipped as above, but also has an optional zone LED module.

The zone LED module contains 48 LEDs and is connected to the LCD Main processor board of the FireNET Latitude fire alarm control panel. A maximum of three zone LED modules can be connected to provide the fascia with 144 zone LED indicators.

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SLC DEVICES

ATJ-EA

FIXED TEMPERATURE /
RATE OF RISE HEAT SENSOR

The fixed temperature /rate of rise sensors provide accurate temperature measurement data to the fire alarm control panel. These sensors are well-suited for environments where dust, cooking fumes, or other factors make the use of smoke sensors impractical.

ACD-V

MULTI-CRITERIA SENSOR CO,
COHb, SMOKE, HEAT

The CO, COHb, smoke, & heat multi-criteria sensor is particularly suited for detecting smoke produced by a wide range of combustibles found in various applications. Temperature monitoring is achieved by a thermistor placed for optimum sensitivity. The sensor is also suited for detecting deadly levels of CO.

ALO-V

PHOTOELECTRIC SMOKE SENSORS

The ALO-V is a reliable, high quality multi-criteria photoelectric smoke detector. It can be used in all open areas where Photoelectric Smoke Detectors are required. This detector is also suitable for monitoring smoke in HVAC ducts. The newly developed “multi-spectrum smoke categorization technology” detects smoldering and flaming fires fueled by traditional materials and polyurethane while reducing nuisance alarms.

ASBL

6” ANALOG LOW FREQUENCY SOUNDER BASE

This base is designed for use with analog sensors. Designed to be connected to a DCP Signaling Line Circuit (SLC), it provides a Low Frequency audible alarm in the immediate vicinity and has a configurable programming algorithm that allows the user to set up groups of bases for synchronization of modulation tones.

ASB

6” ANALOG SOUNDER BASE

This base is designed for use with analog sensors models. Designed to be connected to a DCP Signaling Line Circuit (SLC), it provides an audible alarm in the immediate vicinity and has a configurable programming algorithm that allows the user to set up groups of bases for synchronization of modulation tones. Each device has 16 states that are programmed with the desired output pattern.

YBN-NSA-4 (4”)
HSB-NSA-6 (6”)
SCI-B4 (4” w/ built-in isolator)
SCI-B6 (6” w/ built-in isolator)

SENSOR BASE

The sensor bases are designed specifically for use with the analog sensors. A common mounting base allows sensor interchange and maintains loop continuity when sensors are removed. A simple antitamper head Locking system is provided which is enabled by removing a small plastic tab on the back of the sensor.

DCP-AMS
DCP-AMS-KL

PULL STATIONS

Addressable manual pull stations provide a fast and practical means of manually initiating a fire alarm signal. Both single action and dual action manual pull stations are available.

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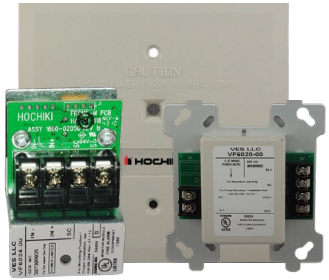
SLC DEVICES



FRCME-M, FRCMA-I, FRCME-P, FRCMA

FAST RESPONSE CONTACT MODULES

The contact modules are designed to be used with pull stations, water flow switches, and other applications requiring the monitoring of dry contact alarm initiating devices.

SCI

SHORT CIRCUIT ISOLATOR

The short circuit isolator provides the capability of allowing NFPA SLC Style 7 installations and checks the line for short circuit at power up; if the line is normal, the relay will be returned on. If a line short is detected, the relay remains open.

SOM-A, SOM-AI

SUPERVISED OUTPUT MODULES

Supervised output modules have been designed to provide application flexibility and quick response to emergency conditions. Flexibility is provided by a wide range of operating modes, including supporting multi-zone operations, and/or functions, up to 16 different modulation patterns and multi-state programming.

R2ML (Low Voltage)
R2ML-I (Low Voltage w/ Isolator)
R2MH (High Voltage)
R2MH-I (High Voltage w/ Isolator

DUAL RELAY MODULES

The dual relay modules have been designed to provide flexible and quick response to emergency conditions. They allow independent control of two form C contacts for a variety of normally open and normally closed contact applications such as fan operation, elevator recall, door closure, and auxiliary notification.

DIMM

DUAL INPUT MONITOR MODULE

The dual input monitor module provides an economical approach to monitor devices in the same proximity, such as water flow and valve supervision on the same interface device.

CZM

CONVENTIONAL ZONE MODULE

The conventional zone module provides the ability to upgrade locations on a phased approach or monitor a zone of conventional detectors. This capability is key to satisfying customer needs for a system upgrade over time, and allows a best case application of technology to match the upgrade with the customer's budget.

DH-100-A

ADDRESSABLE DUCT SMOKE DETECTOR

Analog duct smoke detectors provide early detection of smoke and products of combustion present in air moving through HVAC ducts in commercial, industrial, and residential applications.

MS-RH/KA/P/R
MS-RA/R
MS-RA/P
MS-KA/P/R

ANALOG DUCT SENSOR REMOTE ACCESSORIES

The remote accessories are designed to be used with the analog duct sensors to provide audible and visual indication as well as remote test / reset functions. These devices are constructed of attractive, yet durable brushed stainless steel and mount on a standard single or double gang electrical backbox.

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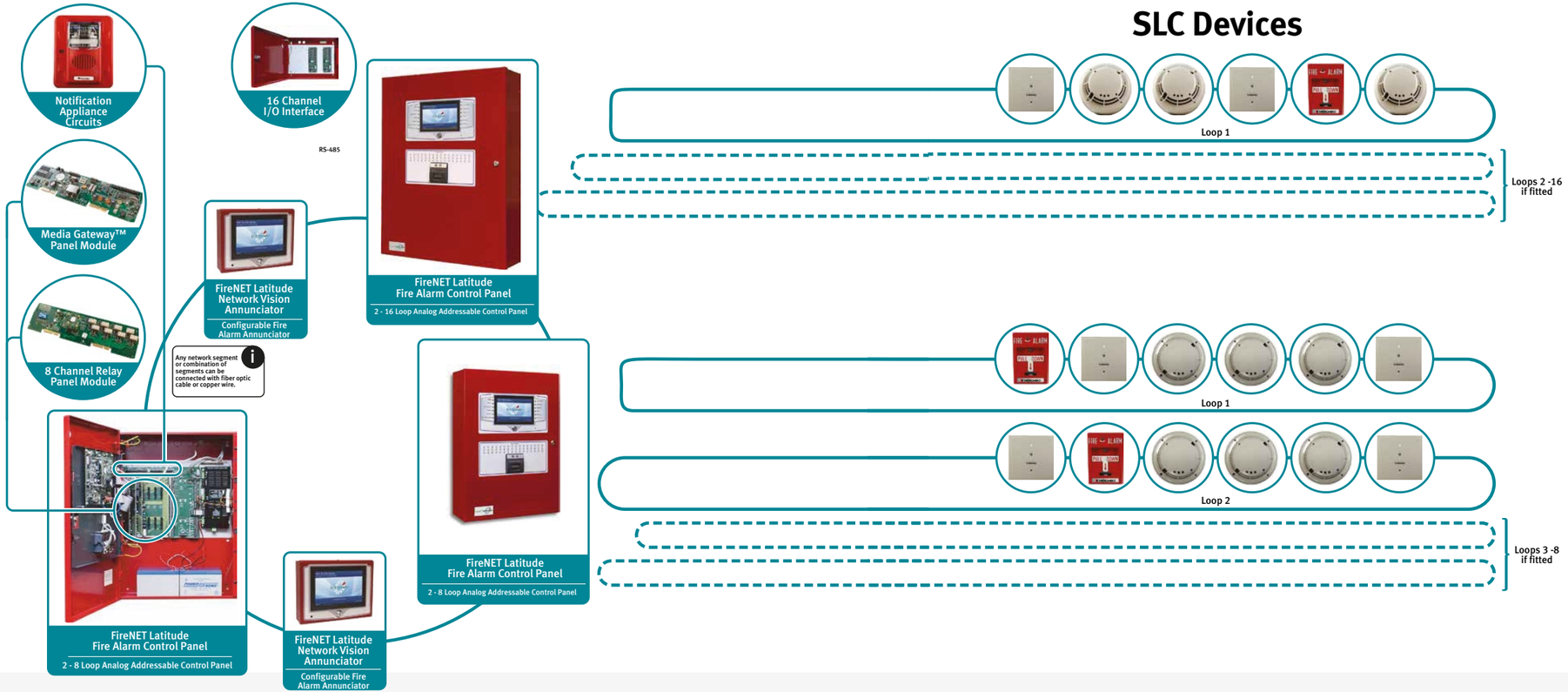
NETWORK SCHEMATIC



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Your Safety Our Technology

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ISS3 / MAY25

Quality Certificate No.164QMS
Assessed to ISO 9001

Environmental Certificate No.164EMS
Assessed to ISO 14001

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Fire Industry Association

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