Kentec
Electronics Ltd

UL/FM Listed Product Overview

SIGNALING

UL LISTED

FM

UL/FM Overview

With important assets and people to protect, a reliable and responsive solution is required to respond rapidly to any situation. Keeping a site safe is not the only priority, but also with the risk of physical damage and financial loss resulting from a fire, the risk to operational performance and reputation is another vital consideration.

Early warning fire systems and detection technology can detect a fire and in the case of extinguishant detection, it can also automatically release a fire suppression agent to eliminate fire within seconds. Stopping a fire within the first few moments can reduce or avoid damage to equipment and assets, as well as subsequent loss of operational productivity.

Manufacturing

From the initial design process, to sheet metal fabrication, to powder coating and printing through to panel construction, we have full control at every stage of our manufacturing process enabling us to guarantee quality and delivery times.

Our manufacturing facility is continually being enhanced and expanded to meet growing customer demand and utilise the latest manufacturing techniques. By owning the whole manufacturing process, it enables us to have the capability and flexibility to produce single items or volume product.

At Kentec we believe that the quality of our products should be paramount; rigorous testing procedures are employed at every stage of the manufacturing process to ensure that all equipment is supplied to the highest standards. For this reason, we offer a three year warranty on all product that we supply. We also understand that service is a key part of how a manufacturer's quality is judged. To this end, we have invested extensively not only in our manufacturing facilities, but also in our support team including technical support and training.

To underpin our industry-leading, in-house manufacturing activities, we employ teams of qualified and experienced mechanical, software and electronic hardware developers and technicians dedicated to both new product developments and existing ongoing product support.

Taktis®
Fire Analogue Addressable Control Equipment

Taktis® is Kentec's most powerful and sophisticated analogue addressable fire panel. Intelligent and technically robust, it has enhanced integration and networking capabilities to meet the current and future needs of small to larger buildings and installations.

Initially configured as a fire detection and alarm system, the flexibility of Taktis is such that it can be re-configured to realise many other control and indication applications, with direct integration into intelligent buildings.

Available in four and eight slot variants, Taktis fire control panel ranges from two to 16 detection loops. Taktis can network up to 128 panels, making it ideal for the largest sites such as schools, hospitals, multi-site retail/supermarkets, critical infrastructure and major commercial and industrial facilities.

Multiple protocols can be supported on each panel to give installers and end-users maximum choice in their systems' design, and the scalable nature of the product provides the highest level of future-proofing and networking possibilities. The modular nature of Taktis allows all field wiring to be connected to a passive motherboard 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, relaycards, additional sounder outputs or programmable I/O modules as required.

As a truly open protocol panel it offers installers and their customers maximum flexibility in systems' design, site-customisation and in the third-party devices that they use. Not only does Taktis provide solutions to the most technically challenging applications in life safety, it will also deliver added value, market advantage and a competitive edge to your business.

Taktis® Fire Features

> Two to eight loop or two to 16 loop versions
> Multiple protocols supported on a single panel (in banks of two SLCs)
> 500mA signalling line circuit current
> Four programmable notification appliance circuits each rated at 2.5A
> 5.25A or 10.25A power supply options
> Enclosure options to suit 26Ah or 45Ah battery options
> Three programmable inputs
> Five programmable relay outputs
> Up to 512 programme Input/Output via optional plug in and serially connected expansion cards
> Hard wired fire and trouble routing inputs and outputs
> Over 4,000 sub address points per panel
> Option to 'invert' inputs and outputs
> Network up to 128 panels
> Configurable via USB port to a USB flash drive or alternatively a USB port lead
> Optional Media Gateway communications card
> Compatible with Ockular management solution
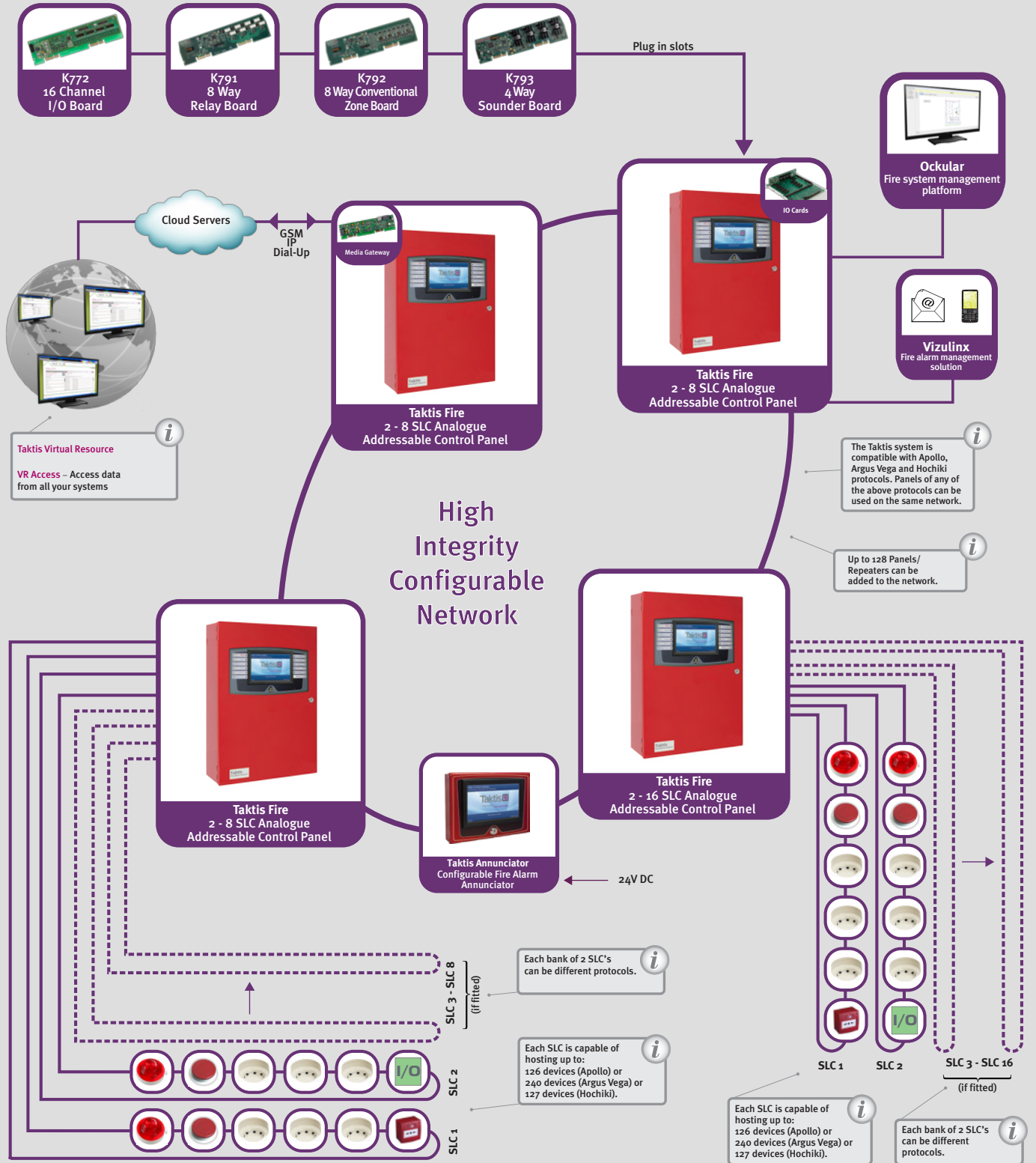> UL864 10th edition approval pending

Taktis

Power, Intelligence......
with a sense of feeling

Taktis®
Network diagram

K772
16 Channel
I/O Board

K791
8 Way
Relay Board

K792
8 Way Conventional
Zone Board

K793
4 Way
Sounder Board

Plug in slots

Cloud Servers

GSM
IP
Dial-Up

Media Gateway

IO Cards

Ockular
Fire system management
platform

Vizulinx
Fire alarm management
solution

Taktis Fire
2 - 8 SLC Analogue
Addressable Control Panel

Taktis Fire
2 - 8 SLC Analogue
Addressable Control Panel

i

Taktis Virtual Resource

VR Access – Access data
from all your systems

i
The Taktis system is
compatible with Apollo,
Argus Vega and Hochiki
protocols. Panels of any of
the above protocols can be
used on the same network.

i
Up to 128 Panels/
Repeaters can be
added to the network.

High
Integrity
Configurable
Network

Taktis Fire
2 - 8 SLC Analogue
Addressable Control Panel

Taktis Annunciator
Configurable Fire Alarm
Annunciator

24V DC

Taktis Fire
2 - 16 SLC Analogue
Addressable Control Panel

SLC 3 - SLC 8
(if fitted)

i
Each bank of 2 SLC's
can be different protocols.

SLC 2

i
Each SLC is capable of
hosting up to:
126 devices (Apollo) or
240 devices (Argus Vega) or
127 devices (Hochiki).

SLC 1

I/O

SLC 1   SLC 2   SLC 3 - SLC 16
(if fitted)

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Ockular
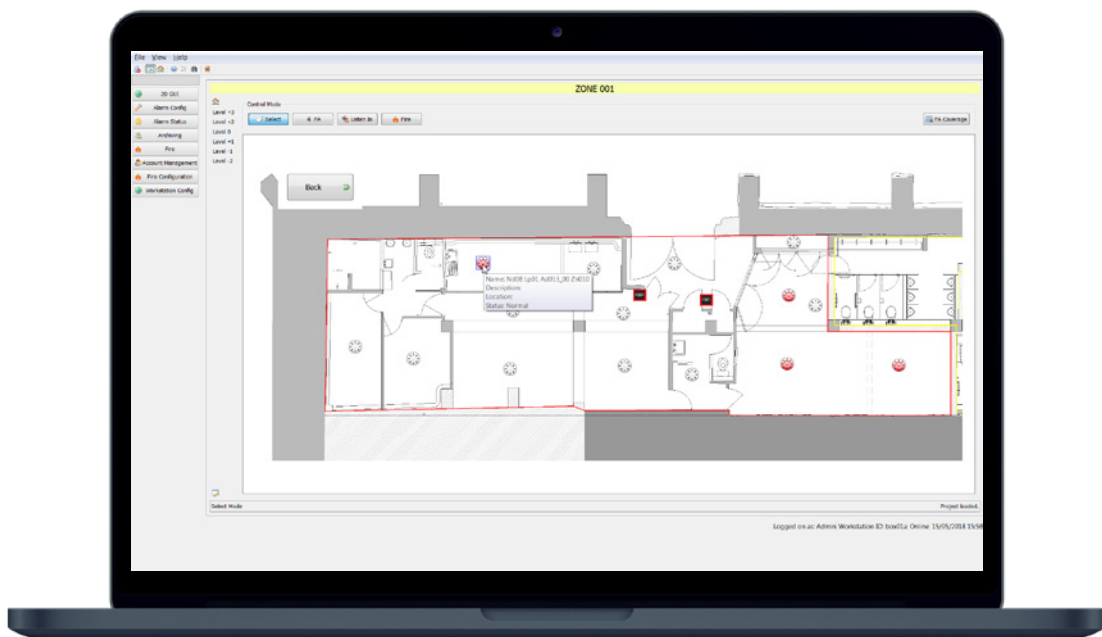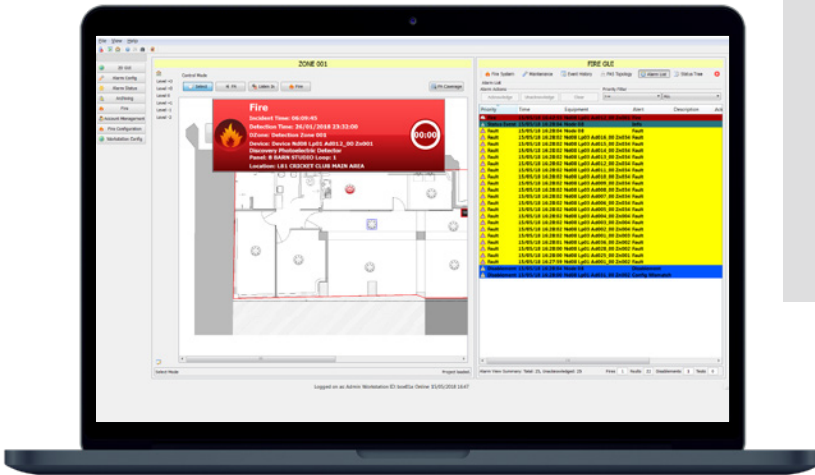
Ockular
Information and Clarity

A powerful and sophisticated graphical representation of your sites, Ockular 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, automated control enables site managers to respond quickly and efficiently to a fire event. Ockular plays a crucial role in safeguarding people, vitally important information and property.

Ockular Features

> Supports dual screens, allowing a dedicated screen for the 2D location images and a separate screen for listing active events, and system management
> Fully configurable using administrator login
> Reports configuration mismatch errors – ensuring that the graphics system is properly maintained and updated
> Powerful event log filtering and reporting
> Manage the state of the fire system using a combination of graphical images and system controls
> Programmable macro buttons to perform panel control operations
> Full map navigation using configurable buttons or map areas
> Device analogue value reporting
> Perform device and zone disablements/enablements

Elite RS – Analogue Addressable Fire Control Panel

UL/FM Approved

Elite RS is a versatile range of open protocol fire alarm control panels.

Available with one or two detection loops capable of hosting up to 254 Hochiki or Apollo UL devices. Elite RS uses microprocessor-based electronics to provide a flexible control system with high reliability and integrity.

Suitable for small and medium sites that require advanced fire sensing and evacuation options. Elite RS control panels can be expanded and networked to become part of much larger systems if the need arises, therefore providing a future-proof solution for any installation.

With its large graphical display and ergonomic button and indicator layout, the Elite RS control panel is simple and straightforward to understand for installers, commissioning engineers and end users alike.

Elite RS Features

> One full SLC circuit expandable to two
> Three programmable relays
> 5.25A power supply
> Compatible with eMatrix graphics annunciator
> Powerful, network wide cause and effects (500 total). Fully user programmable by point or zone
> Can be networked with additional RS and/or Elite control panels
> Compatible with eView Annunciator
> Programmable through a PC connection to the panel
> Stores 1,000 last events in history log
> Model ranges include with or without a Dual-Line internal DACT
> Two programmable NAC circuits with internal synchronization support
> UL864 listed
> EN54 Approved versions also available

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Elite Series Annunciators

eMatrix

The eMatrix system uses flexible, optic light guides to illuminate areas on a floor plan, laid over a high-resolution grid.
This unique system dispenses completely with wiring and enables indicators to be moved, removed or added on site without the need for any wiring.

All indicators can be configured to operate upon any event type and at point, zone or group level via the intuitive Loop Explorer configuration or ESP Discovery. eMatrix can be supplied with or without LEDs and controls. Optional LEDs indicate Power on, Fire, Trouble and Disablement and optional controls are for Alarm silence, Buzzer silence, Lamp test and Reset.

Housed in attractive, slimline enclosures to match Elite fire alarm panels and with high-quality, full colour or monochrome floor plans, eMatrix provides a clear, geographical indication of fire alarm activation enabling speedy identification of the source of an alarm.
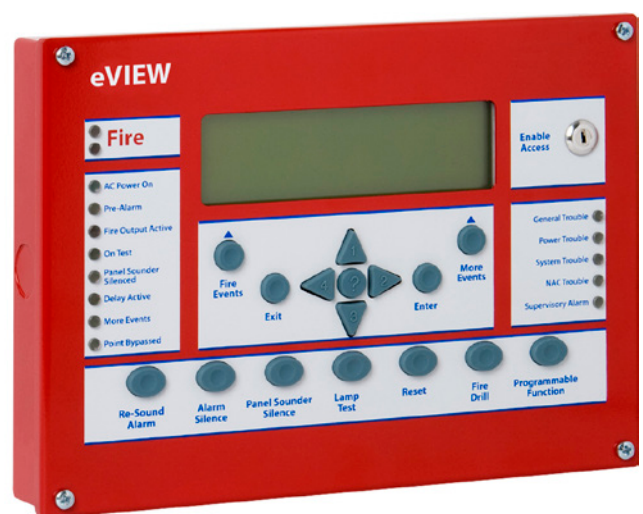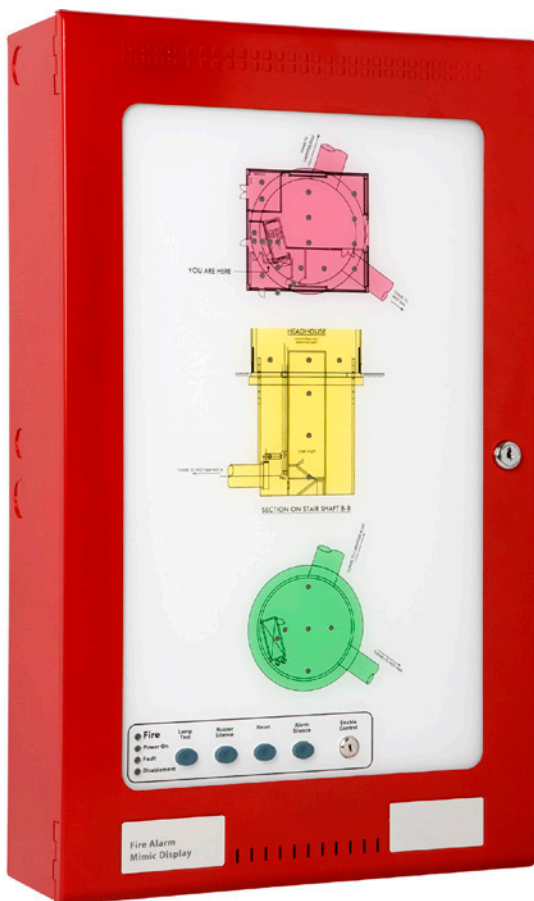
eView

The eView fire alarm annunciator provides a simple and convenient method of extending the controls and indications of the Elite fire alarm control panel to other locations.

The large, graphic LCD and high brightness LED indicators duplicate the indications on the Elite fire alarm control panel at up to 15 additional locations via a simple, two-wire serial data connection.

Housed in a small enclosure which is styled similarly to the Elite control panel, it is ideal for installations where a large control panel would be detrimental to décor, such as entrance halls.

Up to 15 eView annunciators can be connected to each control panel on the Elite network making eView ideal where multiple points of indication and/or control are required such as nurse's stations or shop units.

Vizulinx

Vizulinx is a fire alarm management solution which enables you to monitor and control your fire systems remotely.

Highly configurable using an embedded web server and simple configuration wizard, it can be used to pass fire system events via e-mail, SMS, Modbus and BACnet message format using an IP connection.

Upgrade options to interface to two-way radio systems, ESPA telephone and pager units and speech diallers are available and future connectivity via GSM will be provided for sites where internet connectivity is not available.

Event notifications are triggered and processed immediately, and email or mobile phone messages can be routed to any number of recipients based on the Fire Alarm event types. These include fire, pre-alarm, trouble, disable, in test, supervisory and security.

Events are sent immediately, reducing false alarms as alarms can be investigated before sounding to prevent unnecessary evacuation.

Modbus and BACnet connectivity allows a simple, low cost integration into building management systems and the ability to monitor equipment via 16 switched inputs. Configuring custom messages allows support for conventional fire and extinguishing systems.

For managers of multiple sites, Vizulinx can keep them updated on fire alarm activity making it easy to manage and less time consuming.

This application is ideal for building managers and service providers.

Sigma A-CP
Conventional Control Panel

UL Approved

The Sigma A-CP is a range of conventional fire control panels with optional built-in communicators.

With two, four or eight initiating circuits, all panels can be extensively configured via a simple front panel operated programming method. The low standby power requirements and cost effective small batteries allow the panel to be mounted in a small, discrete enclosure which is available in red or grey. A simple programming method using just three front panel buttons enables an extensive list of configuration options to be set and reviewed.

Single board construction allows easy removal of all electronic parts by removing just two screws to provides ample provision of cable entry knockouts to simplify installation. 4 Amp notification appliance power and built-in selectable sync protocols provide ample power and control for a wide range of standard notification appliances.

The built in RS485 communications bus provides the facility to connect four-wire annunciators or ancillary relay boards to provide further indication and control options throughout a premise.

The optional DACT allows dual line reporting to central stations and provides a 500-event history buffer.

Sigma A-CP Features
> Two, four or eight initiating circuits
> Initiating circuits individually configurable as Fire, Water flow or Supervisory
> Two 2A notification appliance circuits
> Selectable NAC sync protocols
> 6.5A power supply
> Alarm verification selectable by zone
> Resettable Aux power output rated at 0.3A
> Aux power configurable to power off on Fire condition
> Fire, Trouble and Supervisory relays
> Single person walk test function
> Optional DACT
> Numerous advanced configuration options
> 72-hour standby with 7Ah batteries
> UL864 listed

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10.25 Amp Power Supply

UL Approved

The K1840 and K1841 is a UL listed, universal input switching power supply capable of delivering a full 192W of continuous power for fire alarm systems. Suitable for charging a range of sealed lead acid batteries from 7Ah to 40Ah, the K8140 and K1841 power supply features complete monitoring of primary and secondary power sources with fully temperature-compensated battery charging and battery high impedance monitoring.

Power Supply Features:
> Continuous 8A load output while charging fully depleted batteries
> Charges up to 40Ah batteries
> 120V to 240V AC input
> AC fail monitoring with LED indication and output
> Battery disconnection monitoring with LED indication and output
> Low-battery monitoring with LED indication and output
> Dynamic Earth fault monitoring with LED indication and output
> Deep-Discharge Prevention
> Temperature compensated battery charging
> Battery Boost Circuitry
> EN Approved Power Supplies also available
> UL1481 and UL864 listed

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Sigma A-XT
Extinguishant Control Panel
UL/FM Approved

Sigma A-XT releasing panel offers outstanding value and performance for all small to medium fixed firefighting installations.

With three initiation circuits as standard, release can be configured to activate from any combination of detection zone inputs to allow (among other combinations) any two from three types of activations. For example, as would be required for detection in ceiling void, room and floor void applications. The configuration options of the Sigma A-XT allow the functionality of the system to be extensively modified. The panel contains a large LED display to enable easy configuration and control which also displays the time remaining until release for added user safety.

The countdown timer is duplicated on up to seven remote status units to provide local indication of the system status. With all the electronics mounted on a single, easily removable, steel plate, Sigma A-XT panels are both robust and easy to install. Sigma A-XT is supplied in an enclosure that matches the design and colour of the Elite RS range and is available in red or grey.

Sigma A-XT Features

> Three initiation circuits as standard
> Any single zone or any combinations of zones can be configured to release
> Configurable first stage NAC delays
> Configurable detection delays
> Zero time delay upon manual release option
> Compatible with I.S. barriers

> Non-latching zone input option to receive signals from other systems such as aspirating equipment
> Configurable releasing delays up to 60 seconds in five second steps
> Configurable releasing duration up to five minutes in five second steps
> Countdown timer shows time remaining until release
> UL864 and FM listed

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Sigma A-Si – Extinguishant Status & Ancillary Units

UL/FM Approved

The Sigma A-Si range of status indicators provide detailed status information for Sigma A-XT releasing control equipment.

All models provide high-brightness LED indication of Manual Only, Automatic and Manual, Abort Operated, Disabled, Imminent and Released conditions. Models are also available with zonal fire indicators and a common trouble indicator.

For systems where local control of the Automatic/Manual mode and/or a Manual extinguishant release control are required, units are available with these controls fitted.

All models have supervised inputs for the remote connection of Automatic/Manual mode and abort switches.

All units contain a large LED display, which details a countdown of the time remaining until release in seconds.

Up to seven Sigma A-SI status units can be connected to the Sigma A-XT serial bus and require just two cores for data and two cores for power. Once connected, status units are supervised, and the Sigma A-XT control panel will indicate a fault condition should any unit become disconnected.

Sigma A-Si Features

> High-brightness LEDs
> Detailed indication of the status of the control panel
> Supervised data connection
> Countdown timer details time remaining until release
> Manual only and Automatic and Manual mode select keyswitch option
> Four-wire connection (data and power)
> Protected dual action manual release switch option
> Option for zonal fire and trouble indication with buzzer
> Robust, high-quality enclosure
> Easy access to terminals
> Remote Auto/Manual door interlock input (supervised)
> Remote Abort input (supervised)
> Internal trouble diagnosis indicators
> UL864 and FM listed

Abort Switch

The Sigma A-Si Abort switch connects to the Abort terminals of the Sigma A-XT releasing panel. Any number of Sigma A-Si Abort switches may be connected to the circuit.

The last switch must have the end of line device from the Abort circuit terminals of the Sigma A-XT releasing panel fitted across its connections to provide open and short circuit supervision. The unit is supplied mounted to a rugged steel enclosure, but may also be flush mounted to a single gang electrical box.

Ancillary PCB

The Sigma A-XT Ancillary Board is compatible with all Sigma A-XT control panels. The board provides volt-free normally open contacts enabling control of sub-systems and plant remotely from the main panel over a two-wire data bus.

Ancillary boards require only a two-core data cable from the main control panel and a two-core power cable from the main panel.

Up to seven Ancillary boards can be connected to a control panel and each is allocated an address from one to seven using a binary coded DIL switch. The total length of the data cable from the main panel to the last repeater must not exceed 4,000ft.

A mixture of status units and Ancillary boards, up to a maximum of seven of each type, can be connected to the serial data bus.

Ancillary PCB Features

> Two-wire serial connection
> Up to seven per system
> Volt-free relay outputs for fire and releasing system status
> Relay operated LED indicators
> UL864 and FM listed

Company Overview

Kentec Electronics is one of the world's leading life safety solutions manufacturers of conventional, analogue addressable fire detection and extinguishant control panels.

Founded in 1985, Kentec is an end-to-end manufacturer, with everything sold being made in the UK. It employs approximately 230 members of staff in its production facility, head office and research and development department.

In addition to design and manufacture, Kentec provides technical support specified to the local standards and customer requirements of over 90 countries worldwide. With a commitment to meeting the needs of individual national markets, Kentec has achieved a global reputation, resulting in its life safety systems being installed in numerous prestigious sites across the world.

Kentec manufactures products approved to EN54, EN12094, UL, FM, NFPA and marine classification societies.

BSI
Certificate No. FM 32987
BS EN ISO 9001: 2015

BSI
Certificate No. EMS 518118
BS EN ISO 14001:2015

LPCB
Certificate No. 360
BS EN ISO 9001: 2015

FIA
Fire Industry Association

BS-EN12094-1
KM 96761

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