Kentec
Electronics Ltd

Extinguishant
Control Panels

Sigma **XT**   Sigma **XT+**   Sigma **ZXT**   Syncro **XT+**

Protection of people, building and assets from a fire is a paramount concern to any organisation. Keeping a site safe is not the only priority but with the risk of physical damage and financial loss resulting from a fire, there is also the risk to operational performance and reputation, so a reliable and responsive fire system is required that can respond rapidly to any situation.

For many businesses such as data centres, museums and heritage sites, the right protection not only needs to protect your investment but also ensure uninterrupted business operations.

Early warning fire extinguishant systems and detection technology can detect a fire and 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 and subsequent loss of operational productivity.

Globally established, Kentec, a leading manufacturer of life-critical control systems, has a range of extinguishing control panels which play a key role in protecting vitally important information and assets.

Sigma ZXT Extinguishant Control Panel

A development of its proven Sigma XT range, the Sigma ZXT provides controls and indications for a single-area extinguishing release system, enabling targeted extinguishing that limits damage and reduces costs. Three conventional detection zones provide the alarm 'trigger' required to activate the release of extinguishant, and the system can be configured to release the extinguishant on an alarm from any single zone or combination of multiple zones.

The system, compliant with EN12094-1, can also be configured to provide two extinguishing outputs, either working together as common outputs or as main and reserve outputs. The latter results in the connection to two sets of extinguishing gas cylinders, which enables the customer to return a system to a functional state, quickly, following a release.

The Sigma ZXT has an event log which records event data from the panel such as alarms, faults, configuration changes etc. along with a time and date stamp. This historical visibility is critical for diagnostics, identifying the cause of alarms and faults, as well as reasons for activations. Up to 1000 events can be stored within the panel which can be viewed through the LCD or can be downloaded and saved using Kentec's LE2 software.

A sophisticated, dynamic LCD, which supplements the LED status indicators, provides detailed information on panel status including fault conditions, alarm conditions and extinguishing release countdown. If dynamic mode is chosen, the display changes colour in relation to the panel status, providing immediate and clear visibility of status conditions. These are as follows:

White – Normal condition

Red – Fire condition, Released condition

Red flashing – During countdown to the released condition

Yellow – Fault condition, Disabled condition and Test condition

Green – Access level 2

Turquoise – Access level 3

While not in dynamic mode, the LCD will be white regardless of status.
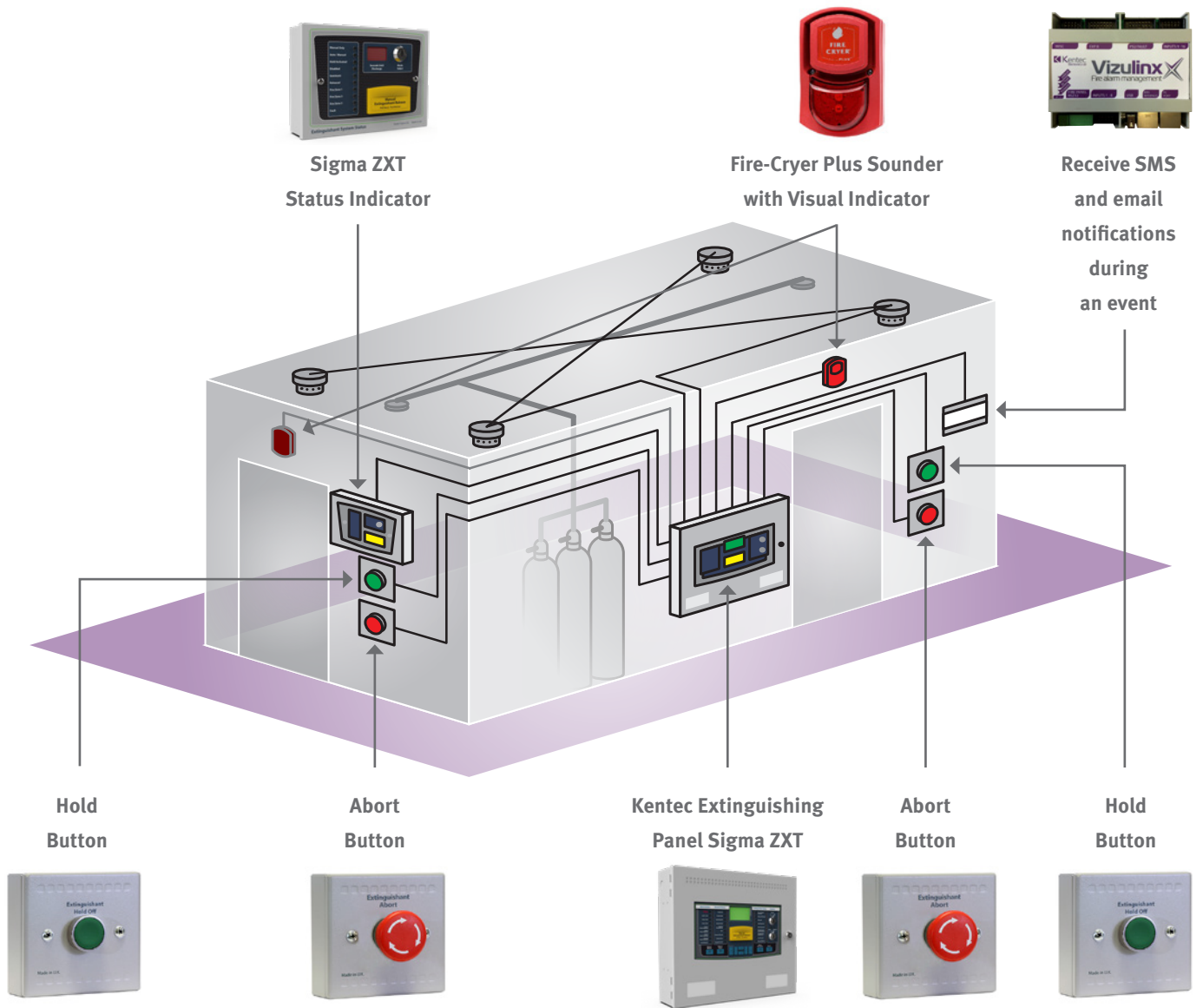
To compliment the Sigma ZXT a range of status indicators which match the look of the Sigma ZXT panel fascia. Status units can be located at any access point to the risk area notifying approaching persons of system status, as well as providing optional Auto/Manual key switches and Manual Release pushbuttons.

Sigma ZXT Features

> Single area extinguishing panel
> Dual extinguishing outputs
> Event log
> Dynamic LCD Display
> Compatible with I.S. barriers
> Non-latching zone input option to receive signals from other systems such as aspirating equipment
> Countdown timer displays time remaining until release
> Supports up to seven, four-wire status indicators
> Sigma ZXT status units
> Compatible with SI status units
> Larger enclosure option is available
> Approved and certified to EN12094-1, EN54-2 and EN54-4

Application Diagram

Sigma ZXT
Status Indicator

Fire-Cryer Plus Sounder
with Visual Indicator

Receive SMS
and email
notifications
during
an event

Hold
Button

Abort
Button

Kentec Extinguishing
Panel Sigma ZXT

Abort
Button

Hold
Button

Applications

The Sigma ZXT is particularly suitable for the following applications:

- Archive Rooms
- Datacentres
- Energy Centres
- Factories
- Generators
- Industrial Units

- Marine
- Printing and Machine Protection
- Switch Rooms
- Telecomm Rooms
- Tunnels
- Waste Recycling

Network Diagram

Sigma ZXT

Common Fire-Cryer Plus 1st and 2nd stage voice sounders

Extinguishing Control PCB

Hold Off Unit

Manual Release

Door Interlock

Low Pressure Switch

Released Pressure Switch

Activate Extinguisher

Sigma ZXT – EN12094-1 Approved Control Unit

Vizulinx Fire alarm management solution

4 Core (FP200 max. length 1200m)

2 Core

2 Core

Hold Off Unit

Door Interlock

BMS Interface

Status Unit

Ancillary Board

4 Core

Detection Zone 1

Detection Zone 2

Detection Zone 3

Addressable House Fire Alarm

Ancillary Board

Status Unit

Status Unit

Status Unit