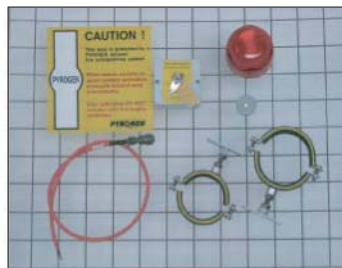


# PyroSense™

Detection, Monitoring Alarm  
& Control systems



Product Brochure

## PyroSense Sigma XT Control Panel

*Three detection zones!*



### Product Overview

*Designed and manufactured to the highest standards in a quality controlled environment and with European EN12094-1 approvals, the PyroSense Sigma XT extinguishant releasing panel offers outstanding value and performance for all small to medium fixed firefighting installations.*

With three detection zones as standard, extinguishant release can be configured to activate from any combination of detection zone inputs to allow (among other combinations) any two from three type activations such as would be required for detection in ceiling void, room and floor void applications.

The extensive configuration options of the PyroSense Sigma XT allow the functionality of the system to be extensively modified while still complying with the requirements of the controlling standard for the equipment (EN12094-1).

The panel contains a large LED display to enable easy configuration and control which also displays the time remaining until extinguishant release for added user safety.

The countdown timer is duplicated on up to seven remote status units to provide local indication of the extinguishant system status.

With all of the electronics mounted on a single, easily removable, steel plate PyroSense Sigma XT panels are both robust and easy to install.

## Extinguishant Control Panel

The PyroSense Sigma XT is a new generation extinguishant releasing panel which is fully compliant with European standard BS EN12094-1. (Fixed firefighting systems – components for gas extinguishing systems).

The simple, programmable configuration options and easy to install construction make the PyroSense Sigma XT panels the ideal choice for small to medium sized systems.

### Features & Benefits

- Complies with EN12094-1
- Three detection zones as standard
- Any single zone or any combinations of zones can be configured to release
- Configurable first stage sounder 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
- Countdown timer shows time remaining until release
- Supports up to seven, four wire status indicators
- Built in Extract Fan control



Extinguishant Status Indicators

## PyroSense SP-1 Control Panel

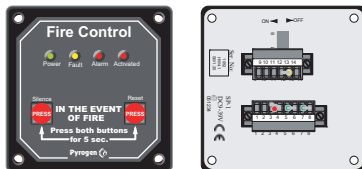
70mm x 70mm!



The PyroSense SP-1 control panel is a fully functional detection alarm and control panel for use with suppressant systems within the Pyrogen range.

It can be connected to, & monitor information from, spot/point detectors, which could be smoke (optical/ionisation), heat, water or gas type, or from a linear thermal sensing cable.

The operating mode for Automatic detection can be switch selected as "Single Activation" for immediate release upon detection by any sensor or "Coincidence" activation, where two sensors must operate before activation of the suppression agent or generators.

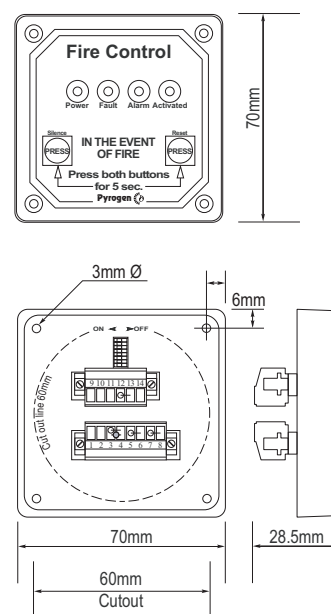


The control panel can be programmed to operate in one of three modes; Automatic mode, which after receiving a signal from the detectors or sensors indicating the existence of a fire, will activate the units remotely after a preset time delay. By Manual mode, which again would be after receiving a signal from the detectors or sensors but would allow for a review of the situation before the units are activated, remotely from the panel. Finally as a Stand alone discharge unit, with the advantage of still being able to monitor the activation line for faults, when used in conjunction with a existing detection and alarm system.

On the back of the panel there are a number of easy connect plug in terminals to allow the user to connect external sounders, warning beacons, relay connections for automatic engine shutdown in event of fire as well as an external manual discharge button should this be required.

## Features & Benefits

- 1 monitored, time & current limited discharge output
- 2 monitored Sensor alarm inputs
- 1 monitored external discharge activation input
- Configurable additional output for extended discharge
- Low power consumption
- Operating voltage 8–28 V DC
- Engine & ventilation shut down output
- General fault, alarm & discharged output
- Membrane Press button "Silence" for silencing of audible alarms
- Membrane Press button "Reset" for resetting of the panel
- Membrane Press buttons for activating of extinguisher(s)
- Dual LED indicators for Power, Fault, Alarm and Activated.
- Built-in System & LEDs test program
- Small size & low weight
- CE, e & E mark approvals



## HAD & MAD Detectors and Activators

The HAD (Heat Activated Device) & MAD (Manually Activated Device) units are unique autonomous thermal detection or manual activation devices, the Heat activated unit will detect an increase of heat i.e. a fire, and automatically, at a preset temperature activate a powder, aerosol or a gaseous fire suppression system. Also, when installed with a Circuit Connection Box, the devices can be used to signal a fire panel as well as signal an additional output designed to shut down the electrical equipment or activate a separate alarm (this is dependent on a specific modification).

The HAD & MAD models are:

PYSHAD-45

PYSHAD-72

PYSHAD-110

PYSMAD

The operation temperature ranges for the **HAD** (Heat Activated Device) are:

PYSHAD-45 Operates @ approximately 45°C

PYSHAD-72 Operates @ approximately 72°C

PYSHAD-110 Operates @ approximately 110°C

The PYSMAD is operated Manually

*Fully Autonomous  
Devices, No external Power  
Required!*



The main feature of the Automatically operated HAD device is a special heat-sensitive element with a rated temperature reading. When subjected to a fire, or a heat relevant to the rated temperature, the element expands releases a spring-loaded rod mounted inside the nosepiece. The spring moves a cylindrical shape magnet, which is mounted on the rod, through an induction coil. The induction coil generates an electric impulse which is transmitted to the electrical terminals and subsequently to the aerosol or powder fire extinguishers.

The Manual version MAD, works in much the same way except that the Sprung loaded rod is released when the manual release pin is removed.

## Other products within the Pyrogen PyroSense Range



Double Pole, Key Operated, Isolator. For isolation before entry



Spot Detectors In both Heat and Smoke types



Sounder/Beacons Multi-Tone Sounders with Xenon beacons



PyroRack Local protection 19" rack-mounted extinguishing and detection unit



## Suppression Systems within the Pyrogen Range



Impulse powder modules for Automatic fire suppression systems



Inert Gaseous Fire Entinguishing Systems



Aerosol fire suppression systems

For further information on PyroSense, or any other product within the Pyrogen range, please contact;

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