

APPLICATIONS GUIDE

DATA CENTRES

Data Centres present many unique challenges when it comes to fire safety and security. They require reliable fire detection and suppression systems and competent companies to install and maintain them, to ensure there is no downtime or business interruption and the premises and data / business continuity are protected which is of paramount importance.

Senseco Systems have a wealth of experience in the data centre sector. We have maintained, installed and upgraded many fire and suppression systems in working data centres and new data hall fit outs. We are in a unique position in that within our group we have LPCB certification for fire detection and alarm (LPS1014), fire suppression (LPS1204) and sprinklers (LPS1048). Therefore we can offer a single point of contact for all detection and suppression systems and can offer end to end testing of these systems together. We can provide solutions to the challenges that many data centres face and have highlighted some of these challenges and solutions to them.

FULL AVAILABILITY / NO OUTAGES

Whether the data centre is a co-location facility, or you are processing your own data, business continuity is paramount. Any outage or data interruption causes disruption to client service and damages reputation and can cost thousands of pounds in lost transactions.

The Solution: Senseco have vast data centre experience and understand the criticality of no interruptions. We are familiar with the protocols of working in live data centre environments and can provide advanced detection and suppression solutions to minimise the threat of fire.



PROTECTION OF DATA, BUSINESS CONTINUITY, ASSETS AND BUILDING

Early warning, reliable detection, coupled with fast acting, effective suppression systems are needed to keep data, business continuity and equipment protected from fire. This is normally the primary concern of the user but protection of the data centre itself is important along with legal requirements of meeting fire safety legislation.



The Solution: We provide a range of Aspiration Smoke Detection systems and reliable point smoke detection which can be optimised for the environment whilst minimising false alarms. We are experienced in a range of suppression systems included inert and chemical gases and water mist. For building protection we provide sprinklers.

Our vast electrical and mechanical, detection and suppression experience sets us apart from most other companies and we can take a holistic view covering all detection and suppression systems.

SUPPRESSION THAT WILL NOT DAMAGE HARD DISK DRIVES



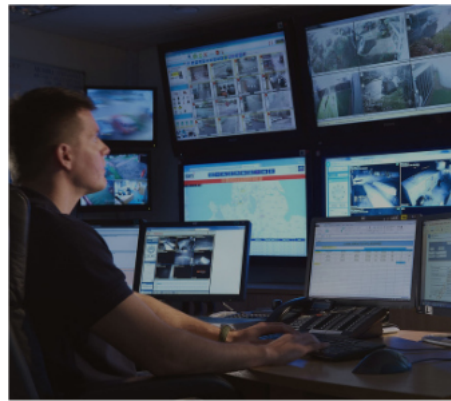
When gas systems operate, particularly inert gas systems, there is a very loud, high pitched noise on gas release. This can cause disruption and damage to Hard Disk Drives (HDD's) as it causes vibration to the head. As HDD's continue to get smaller and higher capacity, this problem has increased over recent years with some high profile data outages caused by suppression systems.

The Solution: We offer "silent" nozzles to reduce the noise levels of a gas extinguishing discharge to minimise the risk of damage to HDDs. We have retrofitted these to existing gas suppression systems and installed them on new systems. As an independent companies we work with different manufacturers for a range of solutions

SECURITY

The security of your facility and access to restricted areas for different clients / departments is essential to ensure no business interruption or security breaches. It is likely a range of different systems are needed ideally linked together to maximise the security of your site.

The Solution: We offer advanced access control and CCTV systems which can be integrated via a head end management system. As an independent company we can offer advice and solutions from a range of different manufacturers. We can even offer remote CCTV monitoring and other technologies to ensure your facility is kept safe.



MAINTENANCE



With a range of different fire and suppression systems and complex interactions between them, often a data centre manager needs to employ different companies for each system. This can lead to systems being tested in isolation rather than end to end and can also lead to risks of suppression system discharges if there is not effective communication between all parties.

The Solution: Senseco are particularly experienced at maintaining data centres and can ensure that detection, suppression and sprinkler systems are all maintained in line with the LPCB requirements and fully tested end to end. By offering a single contract to cover all these disciplines minimises administration and coordination between different parties. This can further be enhanced if security maintenance is also included.

If you'd be interested in discussing your site / application, or any of our other services:

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