

VESDA provides the most optimum smoke detection solutions for protecting the retail industry from the warehouse to the shop front

Applications

- Retail Areas
- Store Rooms
- Atria
- Distribution Centres
- Computer Rooms



OVERVIEW

The retail industry presents a number of challenges to effective and reliable smoke detection that traditional smoke detection technologies simply cannot address. These include discreet/hidden detection in retail spaces; non-intrusive servicing during shopping hours; early warning in high fire load store rooms and being able to detect fires in atria or warehouses where smoke dilution and stratification occurs.

Addressing all these needs and ensuring the retail industry keeps focused on fashion and not infrastructure, Xtralis offers a range of detection solutions to protect the entire value chain.



RETAIL AREA CHALLENGES

Aesthetics – Today creating the right retail environment is paramount and increasingly more retailers are using Xtralis ASD to provide unobtrusive detection in their retail environments and are moving away from unsightly traditional detection technologies.

Maintenance – Gaining access to the ceiling for annual testing and maintenance is always a challenge. Apart from interrupting customers or arranging servicing out of hours, maintenance personnel have to avoid damaging stock; moving stock in the protected area to gain access to the detection devices, not to mention having to deal with false ceilings and accumulated dust.

Dilution – Maintaining a comfortable retail experience is important so air conditioning is always in operation. Air conditioning dilutes and moves smoke around the protected area making it difficult to detect. This condition is made worse in large open areas that are found in large retail spaces and shopping centres.

WHY USE A VESDA-E VEA SYSTEM?

VEA provides pinpoint addressability by using a network of microbore tubes connected to sampling points located in the protected area. VEA actively draws air through sampling points and analyses for presence of smoke particles in a centrally located smoke sensor module. The Key advantages are:

- **Fire Prevention** – providing reliable early warning detection allows local intervention of a potential threat; minimising damage or potential evacuation of the retail facility.
- **Non-intrusive Maintenance** – mounting the detector in a serviceable area eliminates the need to access the protected area; allowing servicing to be conducted during normal working hours and within a fraction of the time of traditional smoke detectors.
- **Discreet Protection** – the small sampling points allow the VESDA system to be installed with minimal disruption to the protected area allowing interior designers the flexibility of providing their intended environment while complying with codes and standards.
- **Remote Monitoring** – with iVESDA service engineers and facilities managers can review and monitor system operation to improve maintenance and fault diagnostic efficiency.



"A huge warehouse fire destroyed more than 100 artworks from Charles Saatchi's famous collection."...

While dramatic warehouse fires make the news, even the smallest fire in a retail facility can have devastating consequences. Apart from the immediate impact of damaged stock it is the consequential impact of the retailers' inability to supply and the associated negative brand impact that may drive customers to go elsewhere; making some businesses unable to ever return.

The damage bill from a warehouse fire is not limited to damaged stock or building. Environmental impact to the local area, cost of business interruption and the negative impact of press coverage following a spectacular blaze may also have severe business implications.

Advising customers that their goods have gone up in flame or that you can't supply them for several months could mean the demise of your business.

WAREHOUSE AND STORAGE AREA CHALLENGES

Dilution – warehouses by virtue of their sheer volumes make smoke difficult to detect. As the smoke rises and mixes with clean air it is diluted to a lower concentration that traditional detection technologies cannot detect.

Multiple Openings – Roller doors are often left open allowing air draught into the warehouse causing further smoke dilution..

Stratification – in addition to the smoke dilution challenge, in high ceiling areas smoke eventually loses heat energy creating a stratification layer hence preventing it from reaching the ceiling where tradition detectors are placed.

Detector Access – as traditional detectors are mounted on the ceiling they are difficult to service requiring special access equipment for service and maintenance.

Storage Racks – storage racks in warehouses hold high fire loads and can act like a chimney hence accelerating fire growth.



WHY USE VESDA-E VEU?

With the best detection sensitivity range available in the market combined with a large number of sampling points and longer pipe runs, VESDA-E VEU can be located at an accessible location while providing the most reliable and cost-effective very early warning smoke detection for warehouse applications. The key advantages are:

Reliable Very Early Warning – with the latest Flair technology VESDA-E VEU can provide the earliest possible warning of smoke without nuisance alarms allowing preentative action to take place long before a fire grows to an unmanageable state.

Extended Pipe Runs – with significantly longer pipe runs VESDA-E VEU can be mounted at an accessible height for ease of service and maintenance whilst providing extensive coverage both at ceiling level and within the rack area where required.

Remote Monitoring – with iVESDA service engineers and facilities managers can review and monitor system operation to improve maintenance and fault diagnostic efficiency.





RETAIL FACILITIES PROTECTED BY XTRALIS

Apple Stores - Various
ASDA Regional Distribution Center - Various
Braehead Shopping Center - Glasgow
Burberry - London
Chadstone Shopping Centre - Australia
COOP - Various
H&M Regent Street - London
Masters - Australia
MFI Retail Warehouses - Various
Overgate Tayside Shopping Center - Dundee
Primark - Madrid
Schuh - England
St Enoch Shopping Mall - Glasgow
Trafford Shopping Center - Manchester
White City - London



ABOUT XTRALIS

Xtralis® is the leading global provider of converged solutions for the early detection and remote visual verification of fire, gas and perimeter threats.

Our technologies prevent disasters by giving users time to respond before life, critical infrastructure or business continuity is compromised. We protect high-value and irreplaceable assets belonging to the world's top governments and businesses. Our brands include the VESDA-E –the latest generation of aspirating smoke detection technology; VESDA®– the world's No.1 very early warning aspirating smoke detection (ASD) systems; ICAM™ for flexible ASD; ECO™ – Gas detection & environmental monitoring modules for VESDA & ICAM systems; OSID™– easy to use smoke detection for open areas; ADPRO® –passive infrared sensors, perimeter, multi-site, and enterprise security; HeiTel™– digital video remote monitoring; and, ASIM® – intelligent traffic detection.

APPROVALS

- UL
- ULC
- CSFM
- VdS
- CE
- ActivFire
- FM
- EN 54-20
- ISO 7240-20

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