



VESDA®

Buys Time

Aspirating Smoke Detection

 **xtralis®**



7 reasons for

VESDA®

1 When business continuity is paramount

Is uptime a key business goal? Is service provision critical? VESDA very early warning smoke detectors provide the earliest warning of a potential fire. This buys time to investigate and intervene, potentially avoiding the damage, downtime and cost of suppression release. This is critical for:

- Telecommunications facilities
- Server rooms
- Financial data centres
- Utility facilities
- Clean rooms
- Power generation facilities

2 When smoke is difficult to detect

Is high airflow diluting smoke, preventing it reaching the ceiling, making it difficult to detect? Is the smoke being trapped in ducts, pockets or voids? Is smoke stratifying into a mushroom cloud below a high ceiling, making it difficult to detect?

VESDA sampling points can be placed at the return air grille, or in equipment cabinets, detecting the smoke as it is carried by the airflow. In a large open space, sampling points for VESDA detectors can be placed where the smoke goes—often some distance below ceiling level.

Suitable for:

- Server rooms
- Clean rooms
- Telecommunications facilities
- Warehouses
- Atria
- Indoor stadiums
- Theatres
- Convention centres

3 When maintenance access is difficult

Is the area to be protected inaccessible? Does maintenance on current fire protection systems cause disruptions and inconvenience to your business? VESDA detectors can be mounted in accessible locations, allowing easy access for maintenance. Only the sampling pipe network is placed in the inaccessible area.

Ideal for:

- Ceiling voids & sub floor spaces
- Prison & detention facilities
- Elevator shafts
- Ducts
- Production areas

4 When unobtrusive detection is required

Is it important to preserve the internal design/decoration of the building?
Is vandalism a problem with the current smoke detection system?
A VESDA system can be installed that uses tiny capillary sampling tubes, barely discernible to the human eye. The detectors can be placed in a cupboard or utility area.

Great for:

- Modern offices
- Cathedrals
- Art galleries & museums
- Heritage buildings
- Prisons & detention centres
- Prestige residential

5 When evacuation is a challenge

Will the building be open to the general public? Will it house people who need extra help during an evacuation? Is evacuation difficult due to crowds or limited exits? What is the business impact of an evacuation?
The very early warning that a VESDA system provides allows the maximum time for evacuation.

This is critical for:

- Shopping centres
- Stadiums
- Heritage buildings
- Hospitals
- Underground tunnels
- Facilities for the elderly or children

6 When environmental conditions are difficult

Is poor air quality or extreme temperature present in the area to be protected? VESDA detectors feature dual-stage filtration to ensure that they keep working in dirty environments. The detectors can be installed elsewhere, with only the sampling pipes in the extreme environment. The sampled air can be filtered, warmed or cooled before reaching the detector.

Ideal for:

- Power stations
- Public transport
- Paper and saw mills
- Cold stores
- Mines
- Automotive operations
- Manufacturing operations
- Hazardous areas
(Factory Mutual Class 1 Div 2)

7 When suppression systems are present

Is suppression release a costly and disruptive exercise?
The very early warning provided by a VESDA system allows early intervention, with action being taken before suppression is necessary. The multiple warning levels of a VESDA system can be used to trigger different responses at different stages of a fire, from controlling air conditioning to suppression release.

Applicable for:

- Communications hubs
- Command stations
- Server rooms
- Switch rooms

