



ASPIRATING SMOKE DETECTION VESDA ASD

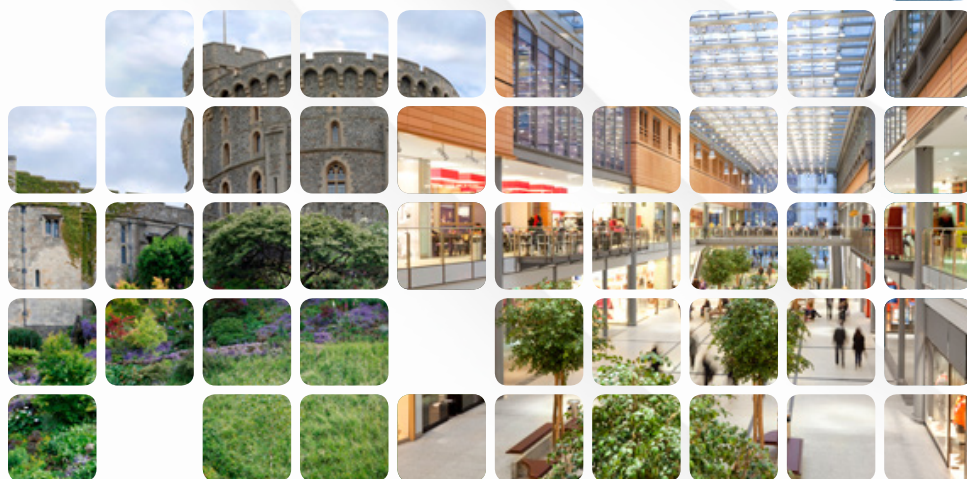


THE WORLD'S LEADING BRAND OF ASPIRATING SMOKE DETECTION

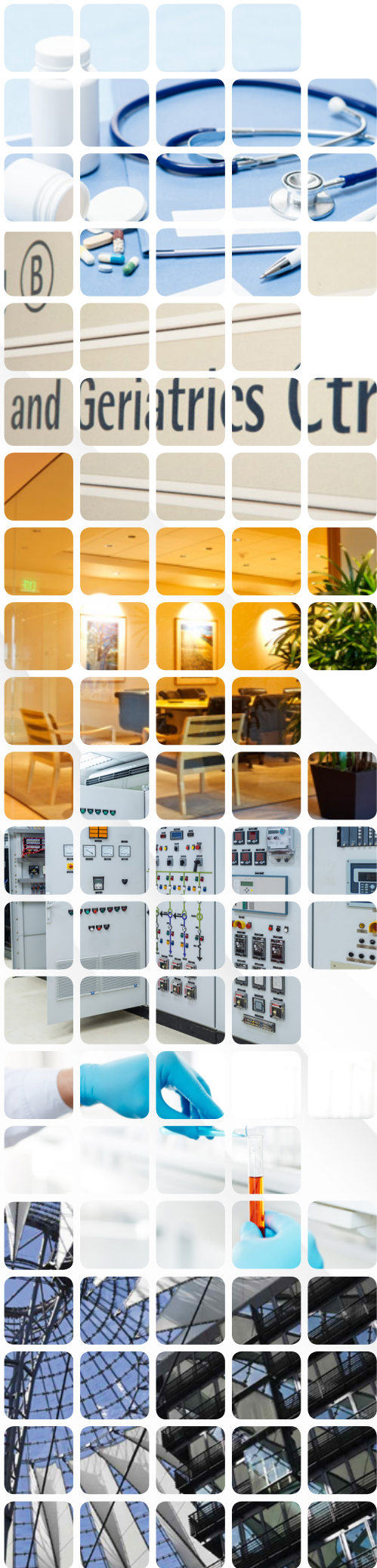
7 REASONS FOR VESDA

- 1 When business continuity is paramount
- 2 When smoke is difficult to detect
- 3 When maintenance access is difficult
- 4 When unobtrusive detection is required
- 5 When evacuation is a challenge
- 6 When environmental conditions are difficult
- 7 When suppression systems are present

VESDA[®]
by **xtralis**



TECHN SWITCH
FIRE DETECTION & SUPPRESSION



THE WORLD'S LEADING ASD BRAND

VESDA Aspiring Smoke Detection solutions with continuous air sampling provide the earliest possible warning of an impending fire hazard. VESDA aspiring smoke detectors buy the critical time needed to investigate an alarm and initiate an appropriate response to prevent injury, property damage or business disruption. VESDA detectors have multi-level warnings and a wide range of sensitivity that does not degrade or change over time, so even minute levels of smoke can be detected before a fire has time to escalate.

As the world's leading ASD brand specified by fire professionals around the globe, VESDA is synonymous with reliable, high-performance fire detection.

HOW VESDA WORKS

VESDA works by continuously drawing air into a distributed pipe network via a high-efficiency aspirator. The air sample then passes through a dual-stage filter. The first stage removes dust and dirt from the air sample before it enters the laser detection chamber.

The second, ultra-fine stage provides an additional clean-air supply to keep the detector's optical surfaces free from contamination, ensuring consistent absolute detection and long detector life as well as minimizing nuisance alarms.

From the filter, the air sample goes through the detection chamber, where it is exposed to a laser light source. When smoke is present, light is scattered within the detection chamber and is instantly identified by the highly sensitive receiver system. The signal is then processed and presented via a bar-graph display, alarm threshold indicators and/or graphic display.

VESDA detectors can communicate this information to a fire alarm control panel, a software management system, or a building management system via relays or a High Level Interface (HLI).



VESDA PRODUCT RANGE

■ VESDA-E VEU



The **VEU series** is the premium detector in the VESDA-E range. An ultra-wide sensitivity range – 15 times greater than VESDA VLP – and provision for more sampling holes provide increased coverage in high airflow applications by up to 40%. Longer linear pipe runs and extended branched pipe network configurations cater for applications with higher ceilings, providing up to 80% increased coverage and allow convenient detector mounting for ease of service and maintenance. Revolutionary new features provide unsurpassed detection performance, flexibility, field programmability, connectivity and reduced total cost of ownership.

■ VESDA-E VEA



The **VESDA-E VEA series** has patented air sampling points, and multi-channel micro bore air-sampling with three alarm sensitivity settings for the sampling points. This multi-channel intelligent system can divide a protected space into sampling locations, enabling localisation of potential fire sources for faster incident response. Perfect for areas where the pinpoint location of fire events is critical, e.g. healthcare, retail and electrical cabinets. A wide range of features offers flexibility, field programmability, enhanced connectivity and reduced total cost of ownership.

■ VESDA-E VEP



The **VESDA-E VEP series** of smoke detectors bring the latest and most advanced detection technology to provide very early warning and the best nuisance alarm rejection to a wide range of applications. Built on the Flair detection technology and years of application experience, VEP detectors deliver absolute calibration for lifetime performance and a range of revolutionary features that offer user value.

■ VESDA-E VES



The **VESDA-E VES** offers sector addressability coupled with Flair detection technology to deliver absolute calibration and consistent performance over time. The detector draws air from all sectors – if the smoke level reaches the Adaptive Scan Threshold, a Fast Scan of each sector is initiated to identify the sector carrying smoke. This sector is signalled to the user (can be connected to FACP as pre-alarm). If two or more sectors reach Alert level, the sector with the highest smoke concentration is designated as the First Alarm Sector.

■ VESDA VLF



The **VESDA VLF** delivers the most advanced and cost-effective aspirating smoke detection technology for small environments. The VESDA VLF-250 model protects areas up to 250 m², and the VESDA VLF-500 model covers up to 500 m². In addition to the features found in all Xtralis Laser products, VESDA VLF provides a new range of features and built-in intelligence for quick installation, commissioning and servicing.

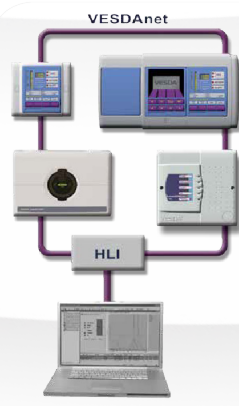
■ VESDA VLI



The **VESDA VLI** is designed to protect **industrial applications** such as mining, manufacturing, power generation facilities, and waste treatment plants, spanning areas up to 2,000 m². The VLI detector combines a patented fail-safe Intelligent Filter with Clean Air Zero and clean-air barrier for optics protection complementing absolute detection and providing longer detection chamber life – all enclosed in a robust IP66-rated enclosure.

■ VESDAnet™

VESDAnet is a comprehensive, fault-tolerant, "closed", two-wire communications loop that links VESDA detectors, displays, programmers and remote units on a daisy-chained loop. VESDAnet enables a number of units to be programmed together from one or more locations and automatically detects communication failures. It also easily interfaces with systems external to the network, such as intelligent fire alarm panels and building management systems.



■ VESDA PIPE & FITTINGS



A key element in the performance of a VESDA ASD system is the network of sampling pipes that actively transports air from a protected area to the detector. VESDA offers an extensive range of pipe and fittings to suit all application needs, ensuring a quality system is installed every time.

■ REMOTE DISPLAYS & PROGRAMMERS



The VESDA display module monitors and reports the status of a detector, providing visual representation of smoke levels along with all alarm and fault conditions. The menu-driven VESDA Programmer allows the user to conveniently configure, commission and maintain the VESDA system, as well as program each individual detector.



ASPIRATING SMOKE DETECTION VESDA ASD



SOFTWARE

■ VESDA ASPIRE™

The performance of an aspirating smoke detection system is dependent on the design of the pipe network used to transport air back to the smoke detector. **VESDA ASPIRE** is a Windows®-based application that aids the specification and design of pipe networks for VESDA air sampling smoke detectors. It provides the designer with tools to speed the design process and ensure optimum network performance and installation quality. ASPIRE also makes implementation of the design easy. With the automatic generation of lists of all the components required for the project and an Installation Data Pack, the installer will have all the information they need at their fingertips.

■ XTRALIS VSC™

The **VSC software** configures, commissions and maintains the full range of VESDA fire detection products including smoke detectors, LCD programmers and high-level interfaces. VSC can configure a single VESDA smoke detector or an entire network and is equipped with additional features that allow faster setup, fault resolution and event diagnostics.

■ XTRALIS VSM4™

VSM4 configures, monitors and trouble-shoots Xtralis aspirating smoke detection systems. It is easy to use and has been designed to provide the operator with complete control. The user-friendly interface allows you to assess and respond quickly to system events – all from one convenient location. VSM4 is a total solution for integrated control and monitoring of your Xtralis very early warning smoke detection systems.



APPLICATIONS & INDUSTRIES

- Accommodation – Apartments, Hotels
- Shops and Offices
- Correctional Facilities
- Clean Rooms
- Cold Storage
- Cultural / Heritage
- Data & Telecoms
- Hospitals and Healthcare
- Insurance
- Marine
- Nuclear Facilities
- Oil & Gas
- Portable Switch Rooms
- Power Generation
- Records Storage
- Transportation
- Wind Power Generation
- Warehousing



• **DISCLAIMER:** Although the contents of our product literature have been prepared with the greatest care, Technoswitch can accept no liability whatsoever for any direct or indirect damages of any kind that may arise due to either errors or omissions in them, or amendments to products or other specifications following publication. © Technoswitch (Pty) Ltd



HEAD OFFICE — JOHANNESBURG
Cussonia Park, 3 Ridge Road, Laser Park, Johannesburg
JOHANNESBURG T +27 (0)11 794 9144 E info@technoswitch.co.za
CAPE TOWN T +27 (0)21 948 4575 ■ **DURBAN** T +27 (0)31 266 8843

www.technoswitch.co.za