

VESDA VLI

ASPIRATING SMOKE DETECTION FOR INDUSTRIAL AND HARSH ENVIRONMENTS



INDUSTRIAL VESDA VLI

Selecting the most suitable form of smoke detection for the application and environment is the first step towards ensuring a reduced fire risk. There are a myriad of detectors purporting to be suitable for harsh and difficult environments, unfortunately not all these claims are reliable. Ongoing poor performance and increased maintenance and service costs for an incorrectly chosen or specified solution are a reality in the industry and only serve to instil in the end-user a lack of confidence in the smoke detection system.

The consequence of loss due to a fire event is inversely proportional to how well the detection system can detect smoke. That is the higher the sensitivity and performance reliability of the detection system the lower the risk and losses will be. Equally important, the detection system needs to be able to cope with the environment where it's installed, offering longevity with minimal service and maintenance.

With over 35 years proven market leadership, VESDA VLI was created to provide an effective and reliable Very Early Warning Smoke Detector designed to meet the specific and unique challenges of Industrial applications and harsh environments and designed to:

- Withstand harsh environmental conditions
- Maintain its sensitivity over the life of the detector
- Provide best in class detection performance
- Provide a lower TCO



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WITHSTANDING HARSH ENVIRONMENTS

The design of Industrial VESDA VLI enables the product to be deployed into many industrial applications without special application engineering, system design support and enhanced maintenance procedures that were previously required. Key features that enable deployment into these environments include:

- World's first patented fail-safe intelligent filter to eliminate the need for external filters and significantly extend service life
- Inertial secondary filtration removes large dust particles thereby further extending detector service life and safeguarding against nuisance alarms
- IP66 enclosure to provide protection from the environment eliminating the need for costly enclosures
- Extending total aggregate sampling pipe capability up to 360 m (1,181 ft) to cover larger areas with fewer detectors

Another industry first is the 100% modular design. This enables field replacement of individual detector components reducing down time and spare part inventory. No longer does the entire detector have to be replaced.

MAINTAINING DETECTOR SENSITIVITY

Fundamental to Industrial VESDA VLI's ability to provide consistent performance throughout its service life is the use of VESDA's patented absolute detection technology, that uses a clean air barrier to keep the components of the optical detection chamber clean. In addition, a new, innovative and patented Clean Air Zero feature provides the highest degree of detector stability, while maintaining absolute smoke detection.

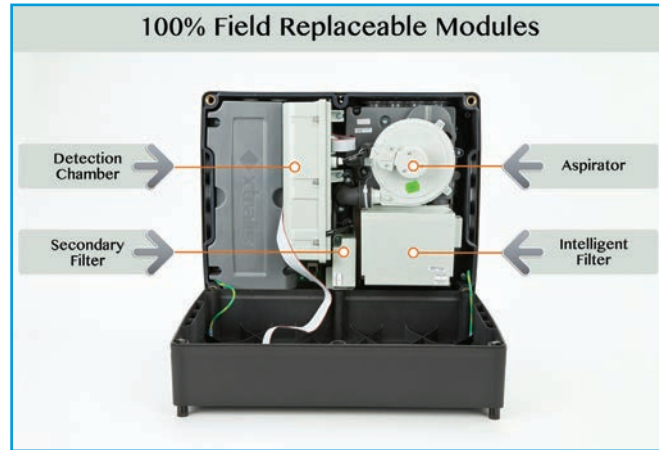
VESDA does not rely on any "predictive" algorithms to compensate for short term or long term drift. These approaches inevitably lead to degraded detector performance and extended detection times, if not missing fire events completely.

The VESDA Advantage offers the ability to set alarm thresholds above specific site background contamination levels to further safeguard against nuisance alarms.

Key Features	Benefits
Robust absolute smoke detection	Reliable and consistent performance
Patented intelligent filter	Fail-safe filter design providing consistent sensitivity over the entire life of the filter and extending detector life
Lint trap	Capture fibrous particulates, safeguarding against nuisance alarms
Clean air barrier	Time-tested technology keeping the optical surfaces within the chamber free of contamination
IP66 enclosure	Total protection against ingress of dust and strong water jets
Sub-sampling probe (inertial separator)	Eliminating nuisance alarms due to large dust particles and also extending chamber life
Clear Air Zero™	Safeguard against nuisance alarms
Air-path monitoring	Detecting internal blockages
Modular field replaceable parts (ie. detection chamber assembly, intelligent filter, aspirator assembly, secondary filter)	Ease of service and maintenance, reduced down time and lower total cost of ownership
Total pipe length up to 360 m (1,181 ft) with up to 120 m (394 ft) of a single straight pipe	Accessible mounting of detector and eliminating need for access equipment
AutoLearn™ Smoke and Flow	Out of box operations

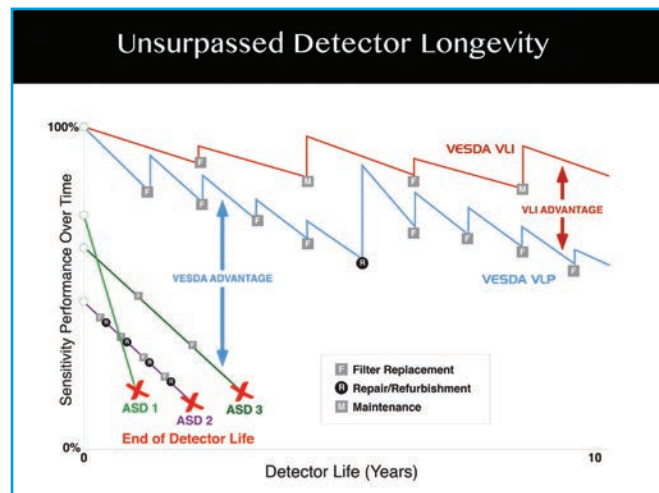
LOWER TOTAL COST OF OWNERSHIP

The net result of all the unique features and performance characteristics is that Industrial VESDA VLI delivers up to 60% lower Total Cost of Ownership than other ASD detectors.



BEST IN CLASS PERFORMANCE

The results of Accelerated Life Testing, carried out by an independent 3rd party, unequivocally demonstrates the superiority of Industrial VESDA VLI compared to other ASDs. Results not only predict that Industrial VESDA VLI will have the longest service life but even at the end of its predicted service life its sensitivity is still higher than competitive units' "out of box" sensitivity.



The Industrial VESDA VLI showcases other features that make it the ideal ASD solution for industrial applications.

- Up to 2,000 m² (21,520 sq ft) coverage
- Up to 4 inlet pipes
- Five (5) high-intensity status LEDs for greater visibility
- Clean air barrier for optics protection
- Referencing
- Relays configurable as latching or non-latching
- Five (5) relays (Fire, Fault and 3 configurable)
- Xtralis VSC, VSM and ASPIRE software support
- Ultrasonic flow sensing
- Easy mounting through steel support bracket
- Local USB configuration port
- Easy cable termination access
- Imperial and metric pipe ports
- Rubberized finish to external housing

APPLICATIONS

Power Generation
Petrochemical Plants
Conveyor protection
Mining
Manufacturing

Processing Plants
Tunnels
Pulp & Paper Production
Warehouses
Transport

Timber Production
Fertilizer Plants
Abattoirs
Laundries
Cold Storage

Textile
Stables
Water Treatment
and more...



FACILITIES PROTECTED

AELEC (AUS) — Tamworth Equestrian Centre	New Zealand Steel (NZ) — Switch Room
Apparel 21 (India) — Textiles Manufacturing	Richards Bay Coal Terminal (SA) — Conveyor Belt
ArcelorMittal Steel Mill (US) — Electrical Equipment Room	Southern Companies (US) — Boiler Feed Pumps
Calgary International Airport (Canada) — Road Tunnels	Network Rail New Street Station (UK) — Rail Station
Cannington Silver and Lead Mine (AUS) — Underground Electrical Switch Room	Cook Colliery Under Ground Coal Mine (AUS) — Underground Coal Mine
SSAB Tunnels (US) — Tunnel	TM Textile (India) — Textiles Manufacturing
Cutler Airforce Base (US) — Very Low Frequency Antenna	Unipart - Tata Motors (India) — Warehousing
Kaltex (Mexico) — Cotton & Textile Plant	Superior Essex (US) — Manufacturing
Yallourn Energy Power Station (AUS) — Coal Transfer Conveyors	ThyssenKrupp Steel (US) — Conveyor, Tunnels, Transformer Vaults

ABOUT XTRALIS



Xtralis is a leading global provider of powerful solutions for the very early & reliable detection of smoke, fire, and gas threats. Our technologies prevent disasters by giving users time to respond before life, critical infrastructure or business continuity is compromised.

We protect highly valued assets and infrastructure belonging to the world's top governments and businesses.

To learn more, please visit us at www.xtralis.com