

New Very Early Warning Smoke Detector for the Industrial Sector

Xtralis

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VESDA VLI aspirating smoke detection (ASD) by Xtralis provides the most trusted very early warning (VEW) smoke detection systems to protect life, assets, and business continuity. Yet, despite the successes VESDA systems have achieved in industrial applications, there is still a misconception in the market that ASD technology is too sensitive or unsuitable for harsh environments. While this misconception has been addressed in part through industry and market education – and proven operation – some still doubt the suitability of ASD in this sector.



The purpose-built VLI sets a new benchmark for fire detection in industrial applications. The VLI builds on VESDA's absolute no-drift calibration, clean air optics barriers and ultrasonic flow sensing – critical features for any industrial smoke detector.

It boasts a ruggedized enclosure providing protection against dust and water spray. VLI also incorporates an industry-first, patented, fail-safe, intelligent filtration technology designed to reduce contamination that might enter a detector, improving detector longevity and reducing service and maintenance. The detection chamber calibration is continuously monitored by another patented Xtralis innovation, automated in-service calibration confirmation using a novel periodic chamber clean air purge system.

Nuisance alarms due to dust particles are greatly reduced via the implementation of mechanical and algorithmic particle separation technologies without compromising smoke detection performance.

A modular design means the intelligent filter, aspirator, and detection chamber are all field-replaceable significantly reducing service downtime and associated costs.