FIRESUPPRESSION LTD
VESDA, FIRE DETECTION & FIRE SUPPRESSION

VESDA VLI

PRODUCT OVERVIEW

The VESDA VLI Aspirating Smoke Detector is an industrial-grade early warning fire detection system that samples air through pipes to detect smoke quickly.
It's built for harsh environments, with strong filtration, low false alarms, easy integration, and reliable performance across large areas.

BENEFITS

- Early fire detection for faster response
- Reliable performance in harsh, dusty environments
- Reduced false alarms through advanced filtration
- Lower maintenance and longer service life
- Flexible coverage for large or complex areas
- Easy integration with existing fire systems

APPLICATIONS

- Industrial facilities (manufacturing plants, processing sites)
- Warehouses and logistics centres
- Utilities and power infrastructure
- Large open or high-ceiling spaces
- Dusty or harsh environments where standard detectors struggle
- Areas requiring early warning fire detection and low false alarms

ADDITIONAL INFORMATION

The VESDA VLI Aspirating Smoke Detector features an IP66-rated enclosure that protects it against dust and water, making it suitable for harsh industrial environments. It can support pipe networks of up to 360 metres, allowing coverage of large or complex spaces. The system includes intelligent airflow monitoring to ensure reliable operation and uses automated commissioning to simplify setup. Its modular design makes servicing easier and reduces downtime, while compatibility with standard fire detection systems allows for straightforward integration and future expansion..

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Specifications

Supply Voltage	18-30 VDC
Power Consumption @24 VDC	10W Nominal, 10.5W in Alarm
Current Consumption @24 VDC	415mA Nominal, 440mA in Alarm
Fuse Rating	1.6 A
Dimensions (WHD)	426.5 mm x 316.5 mm x 180 mm (16.8 in x 12.5 in x 7.1 in)
Weight	6.035 kg (13.3 lbs)
Operating Conditions	Ambient: 0°C to 38°C (32°F to 100°F) Sampled Air: -20°C to 60°C (-4°F to 140°F) Humidity: 10% to 95% RH, non-condensing
Sampling Network	Maximum area of Coverage 2,000 m^2 (21,520 sq.ft) Minimum total airflow: 40 l/m Minimum airflow per pipe: 20 l/m
Maximum Pipe Lengths	Total Pipe Length: 360 m (1,181 ft) Maximum Single Pipe Length: 120 m (394 ft)
Computer Design Tool	ASPIRE
Pipe	Internal Diameter 15 mm - 21 mm (9/16"–7/8") External Diameter 25 mm (1")
Relays	5 Relays rated 2 A @ 30 VDC Fire (NO), Fault (NC), Configurable (NO)
IP Rating	IP66
Cable Access	4 x 25 mm (1") cable entries
Cable Termination	Screw Terminal blocks 0.2–2.5 sq mm (30–12 AWG)
Sensitivity Range	0.05% - 20.0% obs/m (0.015% - 6.575% obs/ft)
Threshold Setting Range	Alert: 0.05%-1.990% obs/m (0.015%-0.6108% obs/ft) Action: 0.1%-1.995% obs/m (0.031%-0.6123% obs/ft) Fire1: 0.15 %-2.0% obs/m (0.046% - 0.614% obs/ft) Fire2: 0.155 % - 20.0% obs/m (0.05% - 6.575% obs/ft) *
Software Features	Event log: Up to 18,000 events stored in FIFO format Smoke level, user actions, alarms and faults with time and date stamp AutoLearn: Min 15 minutes, Max 15 days. Recommended minimum 14 days. While AutoLearn is in progress, thresholds are NOT changed from pre-set values.
Configurable General Input (5 - 30 VDC)	External Reset, Mains OK, Standby, Isolate, Use Night-time Threshold, Reset + Isolate, Inverted Reset

Clean Air Zero

Clean Air Zero is a user-initiated VLI feature which compliments consistent absolute detection over time and also safeguards against nuisance alarms.

This is achieved by introducing clean air into the detection chamber and taking a reference reading of the chamber background. This reading is then offset against the actual environmental background to maintain consistent absolute smoke detection.

Ordering Information

Ordering Code	Description
VLI-880	VESDA VLI
VLI-885	VESDA VLI with VESDAnet *
VRT-Q00	VESDA VLI Remote Display 7 Relays
VRT-T00	VESDA VLI Remote Display No Relays

** Please contact your nearest Xtralis office for availability.*

Spare Parts

Ordering Code	Description
VSP-030	VLI Intelligent Filter
VSP-031	VLI Secondary Foam Filter
VSP-032	VLI Aspirator
VSP-033	VLI Chamber Assembly
VSP-034	VLI VESDAnet Card
VSP-035	VLI Remote Display Module Spare
VSP-036	VLI Ultrasonic Flow Manifold Spare