

FEATURES

- ✓ Up to 2000m² coverage
- ✓ Up to 4 inlet pipes
- ✓ Total pipe length up to 360m
- ✓ Five high intensity status LEDs for greater visibility
- ✓ Robust absolute smoke detection
- ✓ Lint trap to capture fibrous particulates
- ✓ Secondary filter
- ✓ AutoLearn™ Smoke and Flow
- ✓ Clean Air Zero™
- ✓ Five relays (fire, fault and 3 configurable)
- ✓ Relays configurable as latching or non-latching
- ✓ Expandable GPI and relays
- ✓ IP66 enclosure
- ✓ BACnet over Ethernet
- ✓ Local USB configuration port
- ✓ Rubberized finish to external housing
- ✓ VLI-880 | Non-networkable
- ✓ VLI-885 | Networkable



PRODUCT DESCRIPTION

The VESDA VLI is an industry first early warning aspirating smoke detection (ASD) system, designed to protect industrial applications and harsh environments of up to 2000m².

The VLI detector combines a fail-safe Intelligent Filter (patent pending) with an advanced clean-air barrier for optics protection allowing the use of absolute detection and a long detection chamber life without the need for recalibration.

The Intelligent Filter:

- ✓ Effectively reduces the level of pollution in the air sample before it enters the detection chamber, which dramatically extends the operational life of the detector in harsh and polluted environments.
- ✓ Is fully monitored, therefore providing consistent sensitivity over the entire operational life of the detector.

APPROVALS

- ✓ SSL Approved
- ✓ UL
- ✓ ULC
- ✓ ActivFire certified - Listing No. afp-1801

TECHNICAL SPECIFICATIONS

Supply voltage	18 - 30Vdc
Power consumption	10W quiescent, 10.5W with alarm (max)
Current consumption	415mA quiescent, 440mA with alarm (max)
Fuse rating	1.6A
Dimensions	426.5mm W x 316.5mm H x 180mm D
Weight	6.035kg
IP Rating	IP66
Operating conditions	Tested to -10°C to +55°C Recommended ambient: 0°C to 39°C Sampled air: -20°C to 60°C Humidity: 10% to 95% RH, non-condensing
Sampling network	Maximum area of coverage: 2,000m ² Minimum total airflow: 40L/m Minimum airflow per pipe: 20L/m
Maximum pipe length	Total pipe length: 360m Maximum single pipe length: 120m
Computer design tool	ASPIRE2™
Pipe	Internal diameter: 15mm - 21mm External diameter: 25mm
Relays	5 relays rated 2A @ 30Vdc Fire (NO), fault (NC), configurable (NO)
Cable access	4 x 25mm cable entries
Cable termination	Screw terminal blocks 0.2-2.5mm ² (30-12 AWG)
Sensitivity range	0.005% - 20.0% obs/m
Threshold setting range	Alert: 0.05% - 1.990% obs/m Action: 0.1% - 1.995% obs/m Fire 1: 0.15% - 2.0% obs/m Fire 2: 0.155% - 20.0% obs/m* *Limited to 4% obs/ft for UL
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. Auto Learn: 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 (5-30Vdc)	External Reset, Mains OK, Standby, Isolate, Use Night-time Threshold, Reset & Isolate, Inverted Reset