

HIGH SENSITIVITY ASPIRATION SMOKE DETECTION - (HSSD-IV)

VESDA-E VEP



Features

- Suitable for Class 1 Division 2 applications - Groups A, B, C & D
- One and four pipe models for different applications
- Flair detection technology delivers reliable very early warning in a wide range of environments with minimal nuisance alarms
- Multistage filtration and optical protection with clean air barriers ensures lifetime detection performance
- Four alarm levels and a wide sensitivity range deliver optimum protection for the widest range of applications
- Intuitive LCD icon display provides instant status information for immediate response
- Flow fault thresholds per port accommodate varying airflow conditions
- Smart on-board filter retains dust count and remaining filter life for predictable maintenance
- Extensive event log (20,000 events) for event analysis and system diagnostics
- AutoLearn™ smoke and flow for reliable and rapid commissioning
- Referencing to accommodate external environmental conditions to minimise nuisance alarms
- Backward compatible with VLP and VESDAnet
- Remote monitoring with iVESDA for system review and proactive maintenance
- Ethernet for connectivity with Xtralis software for configuration, secondary monitoring, and maintenance
- USB for PC configuration, and firmware upgrade using a memory stick
- Two programmable GPIs (1 monitored) for flexible remote control
- Field replaceable sub-assemblies enable faster service and maximum uptime

Specifications

	One Pipe VEP		Four Pipe VEP		
	VEP-A00-1P	VEP-A00-P	VEP-A10-P		
Supply Voltage	18-30 VDC (24 V Nominal)				
Power Consumption @ 24VDC					
Aspirator Setting	Fixed	1 5	1 5	1 5	1 5
Power (Quiescent)	8.8 W	7.0 W 8.8 W	8.2 W	10.0 W	
Power (In Alarm)	9.6 W	7.8 W 9.6 W	10.4 W	11.6 W	
Dimensions (WHD)	350 mm x 225 mm x 135 mm (13.8 in x 8.9 in x 5.3 in)				
Weight	4.4 kg (9.7 lbs)	4.4 kg (9.7 lbs)	4.5 kg (9.9 lbs)		
Operating Conditions	Ambient: 0°C to 39°C (32°F to 102°F) Sampled Air: -20°C to 60°C (-4°F to 140°F) Tested to: -20°C to 55°C (-4°F to 131°F) UL: -20°C to 50°C (-4°F to 122°F) Humidity: 5% to 95% RH, non-condensing				
Area Coverage	1,000 m ² (10,760 sq. ft.)	2,000 m ² (21,520 sq. ft.)			
Min. airflow per pipe	15 l/m				
Pipe Length (Linear)	100 m (328 ft)		280 m (919 ft)		
Pipe Length (Branched)	130 m (427 ft)		560 m (1,837 ft)		
Pipe lengths depending on number of pipes in use	1 Pipe	1 Pipe	2 Pipe	3 Pipe	4 Pipe
	100 m (328 ft)	110 m (361 ft)	100 m (328 ft)	80 m (262 ft)	70 m (230 ft)
StaX	PSU		PSU, Auto Pipe Clean		
No. of holes (A/B/C)	30/40/45		40/80/100		
Computer design tool	ASPIRE				
Pipe	Inlet: External diameter 25 mm or 1.05 in (3/4 in IPS) Exhaust: External diameter 25 mm or 1.05 in (3/4 in IPS) via adaptor				
Relays	7 programmable relays (latching or non-latching states) Contacts rated 2 A @ 30 VDC (Resistive)				
IP rating	IP40				
Cable access	4 x 26 mm (1.02 in) cable entries				
Cable termination	Screw Terminal blocks 0.2-2.5 sq mm (24-14 AWG)				
Dynamic Range	0.000%/m to 32%/m (0.0000%/ft to 10%/ft)				
Sensitivity Range	0.005 to 20% obs/m (0.0016% to 6.25% obs/ft)				
Threshold setting range	Alert: 0.005% to 2.0% obs/m (0.0016% to 0.625% obs/ft) Action: 0.005% to 2.0% obs/m (0.0016% to 0.625% obs/ft) Fire1: 0.010% to 2.0% obs/m (0.0031% to 0.625% obs/ft) Fire2: 0.020% to 20.0% obs/m (0.0063% to 6.25% obs/ft)				
Software features	Event log: Up to 20,000 events Smoke level, user actions, alarms and faults with time and date stamp AutoLearn: Detector learns Alarm Thresholds and Flow Fault thresholds by monitoring the environment.				

VLI



Designed to be installed in extremely dirty environments

Features

- Suitable for Class 1 Division 2 applications - Groups A, B, C & D
- Up to 2000 m² (21,520 sq. ft.) coverage
- Up to 4 inlet pipes
- Total pipe length up to 360 m (1181 ft)
- Five (5) high intensity status LEDs for greater visibility
- Robust absolute smoke detection
- Intelligent Filter (patent pending)
- Lint Trap to capture fibrous particulates
- Sub-sampling Probe (inertial separator)
- Secondary Filter
- Clean air barrier for optics protection
- Referencing
- AutoLearn™ Smoke and Flow
- Clean Air Zero™
- Air-path monitoring
- Five (5) relays (Fire, Fault and 3 configurable)
- Relays configurable as latching or non latching
- Expandable GPI and relays
- Ultrasonic flow sensing
- Xtralis VSC, Xtralis VSM4 and ASPIRE software support
- IP66 Enclosure
- Easy mounting with steel support bracket
- Modular field replaceable parts for ease of servicing
- Local USB configuration port
- Easy cable termination access
- Imperial and metric pipe ports
- Rubberized finish to external housing

Listings / Approvals

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- UL / ULC
- CSFM
- FM
- VdS
- NF-SSI (www.marque-nf.com)
- VNIPO
- CE
- ActivFire
- CCC
- EN 54-20, ISO 7240-20 Four Pipe VEP
- EN 54-20, ISO 7240-20
 - Class A (40 holes / Fire 1 = 0.028% obs/m)
 - Class B (80 holes / Fire 1 = 0.027% obs/m)
 - Class C (100 holes / Fire 1 = 0.056% obs/m)
- Classification of any configuration is determined using ASPIRE.

