

# VESDA-E VEP

The VESDA-E VEP series of smoke detectors bring the latest and most advanced detection technology to provide very early warning and the best nuisance alarm rejection to a wide range of applications.

Built on the Flair detection technology and years of application experience, VEP detectors achieve consistent performance over their lifetime via absolute calibration. In addition, the VEP delivers a range of revolutionary features that provide user value.

## FLAIR DETECTION TECHNOLOGY

Flair is the revolutionary new detection chamber that forms the core of VESDA-E VEP, providing better detection, fewer nuisance alarms, higher stability, increased longevity and particle characterisation. Direct imaging of the sampled particles using a CMOS imager combined with multiple photo-diodes allow vastly more data that can be used to derive actionable information about the observed particles using analytics.

## INSTALLATION, COMMISSIONING AND OPERATION

VESDA-E VEP is equipped with a powerful aspirator that enables use of a total of 130m (427ft) of sampling pipe in the one pipe model and 560m (1,837ft) of pipe in the four pipe model. Out of box operation is made possible with AutoConfig which allows airflow normalisation and AutoLearn Smoke and Flow to be initiated from within the detector. VEP is fully supported by the ASPIRE and Xtralis VSC software applications which facilitate ease of pipe network design, system commissioning and maintenance.

## VESDAnet™

VESDA devices communicate on VESDAnet which provides a robust bi-directional communication network allowing continued redundant operation even during single point wiring failures. VESDAnet enables primary reporting, centralized configuration, control, maintenance and monitoring.

## ETHERNET AND WIFI CONNECTIVITY

VESDA-E detectors offer Ethernet and WiFi connectivity as standard features. The detector can be added to a corporate network, allowing WiFi enabled tablet devices and PC's installed with Xtralis monitoring and configuration software to connect wirelessly to the detector via the network.

## BACKWARD COMPATIBILITY

VESDA-E VEP is compatible with existing VESDA installations. The detector occupies the same mounting footprint, pipe, conduit and electrical connector positioning as VESDA VLP. VEP is also compatible with existing VESDAnet installations allowing monitoring of both VESDA-E and legacy detectors via the latest iVESDA application.



## FEATURES AND BENEFITS

- 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
- Multi stage 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
- Two programmable GPs (1 monitored) for flexible remote control
- Referencing to accommodate external environmental conditions to minimise nuisance alarms
- Fully backward compatible with VLP and VESDAnet
- Remote monitoring with iVESDA for system review and proactive maintenance
- Field replaceable sub-assemblies enable faster service and maximum uptime
- Ethernet for connectivity with Xtralis software for configuration, secondary monitoring and maintenance
- Industry first. Aspirating detector secondary monitoring and maintenance via WiFi
- USB for PC configuration, and firmware upgrade using a memory stick

## VESDA-E VEP Technical Specification

PART NUMBERS	
DESCRIPTION	ORDER CODE
VESDA-E VEP with LEDs, 1 pipe	VEP-A00-1P
VESDA-E VEP with LEDs, 4 pipe	VEP-A00-P
VESDA-E VEP with 3.5" Display, 4 pipe	VEP-A10-P
Mounting Bracket	VSP-960
SPARE PARTS	
VESDA-E Exhaust adaptor US	VSP-961
VESDA-E Filter	VSP-962
VESDA-E Filter - 20 Pieces	VSP-962-20
VESDA-E Aspirator	VSP-963
VESDA-E Smoke Detection Chamber	VSP-964
VESDA-E Sampling Module	VSP-965

LISTINGS / APPROVALS *	
UL	
ULC	
FM	
ActiveFire	
CE	
VdS	
	Class A (40 holes / Fire 1 = 0.028% obs/m)
EN 54-20, ISO 7240-20 Four Pipe VEP	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.)

**\*These Listings/Approvals are owned by Xtralis, a Honeywell company. They are for the products covered in this document.**

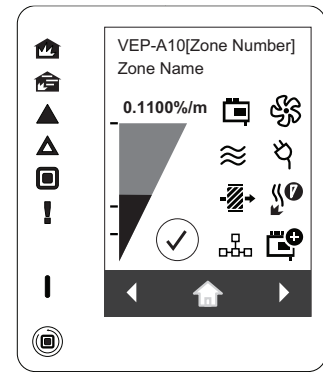
### APPROVAL COMPLIANCE

Please refer to the Product Guide for details regarding compliant design, installation and commissioning.

Regional approvals listings and regulatory compliance vary between product models. Refer to [www.xtralis.com](http://www.xtralis.com) for the latest product approvals matrix.

SPECIFICATION					
	One Pipe VEP			Four Pipe VEP	
Supply Voltage	18 - 30 VDC (24 V Nominal)				
Power Consumption @ 24 VDC	VEP-A00-1P		VEP-A00-P		VEP-A10-P
Aspirator Setting	Fixed	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	350 mm x 225 mm x 135 mm (13.8 in x 8.9 in x 5.3 in)				
Weight	4.0 kg (8.8 lb)		4.0 kg (8.8 lb)		4.1 kg (9.0 lb)
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: 10% to 95% RH, non-condensing				
Area Coverage	1,000 m <sup>2</sup> (10,760 sq. ft)			2,000 m <sup>2</sup> (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 100 m (328 ft)	1 Pipe 110 m (361 ft)	2 Pipe 100 m (328 ft)	3 Pipe 80 m (262 ft)	4 Pipe 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	4 x 26 mm (1.02 in) cable entries				
Dynamic Range	0.001% to 32% obs/m (0.0003% to 10% obs/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.				

## 3.5" DISPLAY



SYMBOL	LED
	Fire 2
	Fire 1
	Action
	Alert
	Disabled
	Fault
	Power
	Smoke and Alarm Threshold Levels
	Detector OK
	Detector Fault
	Aspirator Fault
	Airflow Fault
	Power Fault
	Filter Fault
	Smoke Chamber Fault
	VESDAnet Fault
	StaX Module Fault

### For more information

Contact your Business Manager

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All technical data is correct at the time of publication and is subject to changes without notice. All trademarks acknowledged. Installation information: In order to ensure full functionality, refer to the installation instructions as supplied.

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