



## **DATABLAD:**

### **Aspirationsanlæg - VESDA VEP-A00-1P**

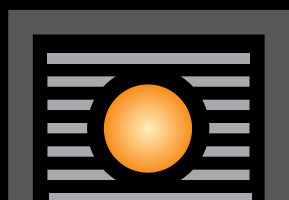
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**SAFE • VENT®**

# ASPIRATING SMOKE DETECTION SYSTEM VESDA VEP-A00-1P

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## 1. FLAIR DETECTION TECHNOLOGY

The VESDA 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.

## 2. INSTALLATION, COMMISSIONING AND OPERATION

VESDA 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.

## 3. VESDAnet™

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

## 4. ETHERNET AND WIFI CONNECTIVITY

VESDA 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.

## 5. BACKWARD COMPATIBILITY

VESDA 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 and legacy detectors via the latest iVESDA application.

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## 6. SPECIFICATIONS

SPECIFICATION	
SUPPLY VOLTAGE	18-30 VDC (24 V Nominal)
ASPIRATOR SETTING	Fixed
POWER (QUIESCENT)	8.8 W
POWER (IN ALARM)	9.6 W
DIMENSIONS (W x H x D)	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)
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 <sup>2</sup> (10,760 sq. ft)
MIN. AIRFLOW PER PIPE	15 l/m
PIPE LENGTH (LINEAR)	100 m (328 ft)
PIPE LENGTH (BRANCHED)	130 m (427 ft)
PIPE LENGTHS DEPENDING ON NUMBER OF PIPES IN USE	1 Pipe / 100 m (328 ft)
StaX	PSU
NO. OF HOLES (A/B/C)	30/40/45
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	0.001% 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.

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## 7. FEATURES

- ❖ 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
- ❖ 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
- ❖ Industry first. Aspirating detector secondary monitoring and maintenance via WiFi
- ❖ 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

## 8. LISTINGS / APPROVALS

- ❖ UL
- ❖ ULC
- ❖ FM
- ❖ ActivFire
- ❖ CE
- ❖ VdS