



**Features:**

- One or four pipe models available
- 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
- Extensive event log (20,000 events) for event analysis and system diagnostics
- AutoLearn™ smoke and flow for reliable and rapid commissioning
- Ethernet for connectivity with Xtralis software for configuration, monitoring and maintenance

**Description:**

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 deliver absolute calibration for lifetime performance and a range of revolutionary new features that deliver 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 characterization. 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 provides a total pipe length of 560m. Out of box operation is made possible with AutoConfig which allows airflow normalization and AutoLearn Smoke and Flow to be initiated within the detector.

**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 fully compatible with existing VESDA installations.

**Specifications:**

|  | One Pipe VEP   | Four Pipe VEP        |        |                  |        |
|--|--|----------------------|--------|------------------|--------|
| Supply Voltage:                                  | 18 to 30 VDC (24 V Nominal)  |                      |        |                  |        |
| Power Consumption @ 24VDC:                       | <b>VEP-A00-1P</b>  | <b>VEP-A00-P</b>     |        | <b>VEP-A10-P</b> |        |
| Aspirator Setting:                               | Fixed  | 1                    | 5      | 1                | 5      |
| Power (Quiescent):                               | 8.8W   | 7.0W                 | 8.8W   | 8.2W             | 10.0W  |
| Power (In Alarm):                                | 9.6W   | 7.8W                 | 9.6W   | 10.4W            | 11.6W  |
| Dimensions (WHD):                                | 350mm x 225mm x 135mm (13.8in x 8.9in x 5.3in)   |                      |        |                  |        |
| Weight:  | 4.0 KG   | 4.0 KG               |        | 4.1 KG           |        |
| Operating Conditions:                            | <ul style="list-style-type: none"> <li><b>Ambient:</b> 0°C to 39°C</li> <li><b>Sampled Air:</b> -20°C to 60°C</li> <li><b>Tested to:</b> -20°C to 55°C</li> <li><b>Humidity:</b> 10% to 95% RH, non-condensing</li> </ul>              |                      |        |                  |        |
| Area Coverage:                                   | 1000 m <sup>2</sup>  | 2000m <sup>2</sup>   |        |                  |        |
| Min. airflow per pipe:                           | 15 l/m   |                      |        |                  |        |
| Pipe Length (Linear):                            | 100m   | 280 m                |        |                  |        |
| Pipe Length (Branched):                          | 130m   | 560m                 |        |                  |        |
| Pipe Length depending on number of pipes in use: | 1 Pipe   | 1 Pipe               | 2 Pipe | 3 Pipe           | 4 Pipe |
|  | 100m   | 110m                 | 100m   | 80m              | 70m    |
| Analytics:                                       | DieselTrace™, DustTrace™, WireTrace™   |                      |        |                  |        |
| StaX:  | PSU  | PSU, Auto Pipe Clean |        |                  |        |
| No. of holes (A/B/C):                            | 30/40/45   | 40/80/100            |        |                  |        |
| Computer Design Tool:                            | ASPIRE-E™  |                      |        |                  |        |
| Pipe:  | Inlet: External diameter 25mm (3/4 in IPS)<br>Exhaust: External diameter 25mm (3/4 in IPS via adaptor)   |                      |        |                  |        |
| Relays:  | 7 programmable relays (latching or non-latching states)<br>Contacts rated 2 A @ 30 VDC (Resistive)   |                      |        |                  |        |
| IP rating:                                       | IP40   |                      |        |                  |        |
| Cable access:                                    | 4 x 26mm cable entries   |                      |        |                  |        |
| Cable Termination:                               | Screw Terminal blocks 0.2-2.25 sq mm (24-14 AWG)   |                      |        |                  |        |
| Dynamic Range:                                   | 0.0001% to 20% obs/m   |                      |        |                  |        |
| Sensitivity Range:                               | 0.005% to 20.00% obs/m   |                      |        |                  |        |
| Threshold setting range:                         | Alert: 0.005% to 2.0% obs/m<br>Action: 0.005% to 2.0% obs/m<br>Fire1: 0.010% to 2.0% obs/m<br>Fire2: 0.020% to 20.0% obs/m   |                      |        |                  |        |
| Software features:                               | Event Log: Up to 20,000 events stored in FIFO format<br>Smoke level, user actions, alarms and faults with time and date stamp.<br>AutoLearn: Detector learns Alarm Thresholds and Flow Fault thresholds by monitoring the environment. |                      |        |                  |        |

**Ordering Information:**

- **VEP-A00-1P** - VESDA-E VEP 1 pipe with LED
- **VEP-A00** - VESDA-E VEP 4 pipe with LED's
- **VEP-A10** - VESDA-E VEP 4 pipe with 3.5" display

**Listings/Approvals:**

- **ActivFire Cert No. afp-2953**
- **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 = 0.072% obs/m)