

## FEATURES

- ✓ Intelligent VESDA-E series connects to the AFP-3030 on the loop
- ✓ Runs in FlashScan® mode
- ✓ 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
- ✓ Flow fault thresholds 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 for reliable and rapid commissioning
- ✓ Referencing to accommodate external environmental conditions to minimize nuisance alarms
- ✓ Remote monitoring with iVESDA for system review and proactive maintenance
- ✓ Ethernet for connectivity with Xtralis software for configuration, secondary monitoring and maintenance



## PRODUCT DESCRIPTION

The intelligent VESDA-E VEP Series aspirating 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.

VESDA-E VEP Series detector connects to the SLC loop of compatible intelligent fire alarm control panels using FlashScan® protocol to communicate up to five levels of events for display and use in control-by-event system programming. Using the SLC connection, the system operator can also review real-time status information, such as alarms and faults. The system operator can also put an Intelligent VEP Series detector into service mode, or reset airflow baselines.

### Flair Detection Technology

Flair is the revolutionary new detection chamber that forms the core of Intelligent 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 about the observed particles.

Intelligent VEP Series detectors support multiple sensitivity modes with four alarm levels. Day/Night/Weekend mode enables technicians to configure alarm thresholds based on routine changes in the environment.

**Connectivity and Configuration**

VESDA-E detectors offer Ethernet and WiFi connectivity as standard features. The detector can be added to a corporate network, allowing WiFi enabled mobile devices and PC's installed with Xtralis configuration and monitoring applications (VSC / VSM/iVESDA) to connect wirelessly to the detector via the network.

**Backward Compatibility**

The Intelligent VESDA-E VEP Series is compatible with existing VESDA installations. The detector occupies the same mounting footprint, pipe, conduit and electrical connector positioning as VESDA VLP.

**FLASHSCAN CAPABILITIES**

- ✓ The Intelligent VESDA-E VEP Series connects to the Signaling Line Circuit (SLC) loop of the AFP-3030 panels. For these detectors, panel firmware version 20 or higher is required.
- ✓ Uses 5 detector SLC addresses. *Sensitivity for all event thresholds are programmed with the VSC or VSM applications.*
- ✓ Detector trouble reporting at panel
- ✓ Supports setting one device as an Aspiration Reference for other Intelligent VESDA-E VEP or VEU Series detectors on the same SLC loop

**ORDERING INFORMATION**

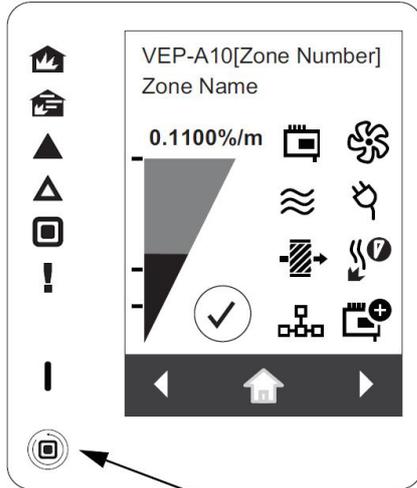
|                       |   |
|-----------------------|---|
| <b>VEP-A00-1P-NTF</b> | VESDA-E Addressable VEP One Pipe with LEDs          |
| <b>VEP-A00-P-NTF</b>  | VESDA-E Addressable VEP Four Pipe with LEDs         |
| <b>VEP-A10-P-NTF</b>  | VESDA-E Addressable VEP Four Pipe with 3.5" Display |

**SPECIFICATIONS**

| Number of Pipes                            | One Pipe VEP  | Four Pipe VEP       |               |               |               |
|--|---|---------------------|---------------|---------------|---------------|
| Supply voltage                             | 18-30Vdc (24V nominal)  |                     |               |               |               |
| Device current consumption @ 24Vdc         | VEP-A00-1P-NTF  | VEP-A00-P-NTF       | VEP-A10-P-NTF |               |               |
| Aspirator setting                          | Fixed   | 1                   | 5             | 1             | 5             |
| Normal operation <sup>1</sup>              | 360mA   | 290mA               | 370mA         | 330mA         | 410mA         |
| In alarm <sup>1</sup>                      | 390mA   | 320mA               | 400mA         | 360mA         | 440mA         |
| <b>SLC Current Consumption</b>             |   |                     |               |               |               |
| Normal operation                           | 8mA   | 8mA                 | 8mA           | 8mA           | 8mA           |
| In alarm                                   | 8mA   | 8mA                 | 8mA           | 8mA           | 8mA           |
| Dimensions                                 | 350mm W x 225mm H x 135mm D   |                     |               |               |               |
| Weight                                     | 4kg (A00-1P & A00-P)  |                     |               | 4.1kg (A10-P) |               |
| Operating conditions                       | <b>Ambient:</b> 0°C to 39°C<br><b>Sampled air:</b> -20°C to 60°C<br><b>Humidity:</b> 5% to 95% RH, non-condensing   |                     |               |               |               |
| Area coverage                              | 1,000m <sup>2</sup>   | 2,000m <sup>2</sup> |               |               |               |
| Min. airflow per pipe                      | 15L/m   |                     |               |               |               |
| Pipe length (linear)                       | 100m  | 280m                |               |               |               |
| Pipe length (branched)                     | 130m  | 560m                |               |               |               |
| Pipe lengths (dep. on no. of pipes in use) | <b>1 pipe</b>   | <b>1 pipe</b>       | <b>2 pipe</b> | <b>3 pipe</b> | <b>4 pipe</b> |
|  | 100m  | 110m                | 100m          | 80m           | 70m           |
| No. of holes (A/B/C)                       | 30/40/45  | 40/80/100           |               |               |               |
| Computer design tool                       | ASPIRE  |                     |               |               |               |
| Pipe                                       | <b>Inlet:</b> External diameter 25mm<br><b>Exhaust:</b> External diameter 25mm  |                     |               |               |               |
| Relays                                     | 7 pre-configured relays<br>Contacts rated 2A @ 30Vdc (Resistive)  |                     |               |               |               |
| IP rating                                  | IP40  |                     |               |               |               |
| Cable Access                               | 4 x 26mm cable entries  |                     |               |               |               |
| Cable termination                          | Screw terminal blocks 0.2 - 2.5 sq mm   |                     |               |               |               |
| Dynamic range                              | 0.001% to 32% obs/m   |                     |               |               |               |
| Sensitivity range                          | 0.005% to 20% obs/m   |                     |               |               |               |
| Threshold setting range                    | <b>Alert:</b> 0.005% to 2.0% obs/m<br><b>Action:</b> 0.005% to 2.0% obs/m<br><b>Fire 1:</b> 0.010% to 2.0% obs/m<br><b>Fire 2:</b> 0.020% to 20.0% obs/m  |                     |               |               |               |
| Software features                          | <b>Event Log:</b> Up to 20,000 events<br><b>Smoke Level:</b> User Actions, Alarms & Faults w/ time & date stamp<br><b>AutoLearn:</b> Detector learns Alarm Thresholds and Flow Fault thresholds by monitoring the environment |                     |               |               |               |

<sup>1</sup>If ethernet port is in use, add an additional 10mA. If WiFi port is in use, add additional 20mA

#### USER INTERFACE DISPLAY



Acknowledge to stop the buzzer.

#### APPROVALS

The listings and approvals below apply to Intelligent VESDA-E VEA components. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process.

- ✓ ActivFire certified - Listing No. afp-2953
- ✓ UL/ULC Listed: S5198 Vol 20.
- ✓ CSFM: 7259-1728-0502.

| 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              |
|        | Communication Fault              |
|        | StaX Module Fault                |