

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

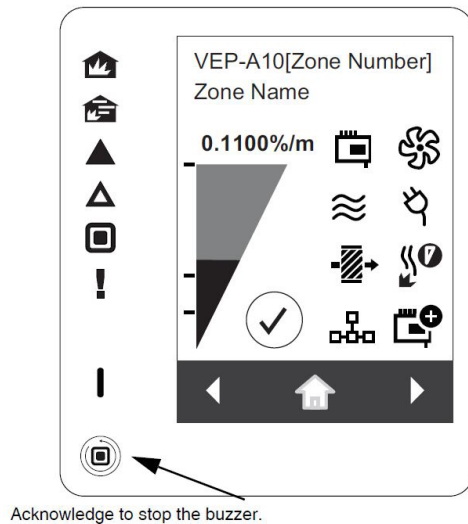
VEP-A00-1P-NTF	VESDA-E Addressable VEP One Pipe with LEDs
VEP-A00-P-NTF	VESDA-E Addressable VEP Four Pipe with LEDs
VEP-A10-P-NTF	VESDA-E Addressable VEP Four Pipe with 3.5" Display

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 ¹	360mA	290mA	370mA	330mA	410mA
In alarm ¹	390mA	320mA	400mA	360mA	440mA
SLC Current Consumption					
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	Ambient: 0°C to 39°C Sampled air: -20°C to 60°C Humidity: 5% to 95% RH, non-condensing				
Area coverage	1,000m²	2,000m²			
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)	1 pipe	1 pipe	2 pipe	3 pipe	4 pipe
	100m	110m	100m	80m	70m
No. of holes (A/B/C)	30/40/45	40/80/100			
Computer design tool	ASPIRE				
Pipe	Inlet: External diameter 25mm Exhaust: External diameter 25mm				
Relays	7 pre-configured relays 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	Alert: 0.005% to 2.0% obs/m Action: 0.005% to 2.0% obs/m Fire 1: 0.010% to 2.0% obs/m Fire 2: 0.020% to 20.0% obs/m				
Software features	Event Log: Up to 20,000 events Smoke Level: User Actions, Alarms & Faults w/ time & date stamp AutoLearn: Detector learns Alarm Thresholds and Flow Fault thresholds by monitoring the environment				

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

USER INTERFACE DISPLAY



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