

FEATURES

- ✓ Intelligent VESDA-E series connects to the AFP-3030 on the loop
- ✓ Runs in FlashScan® mode
- ✓ 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 an ultra-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
- ✓ Backward compatible with VLP
- ✓ 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 VEU Series of aspirating smoke detectors are the premium detector of the VESDA-E range. An Ultra-wide sensitivity range and provision for more sampling holes provide an increased coverage in high airflow applications by at least 40%. Considerably longer linear pipe runs and extended branched pipe network configurations cater perfectly to applications with higher ceilings providing an increased coverage by up to 80% whilst allowing convenient detector mounting for ease of service and maintenance. A range of new features provide unsurpassed detection performance, flexibility, field programmability, connectivity and reduced total cost of ownership.

VESDA-E VEU 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 VEU Series detector into service mode, or reset airflow baselines.

Flair Detection Technology

Flair is the new detection chamber that forms the core of the Intelligent VESDA-E VEU Series, 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. The Intelligent VESDA-E VEU Series features a robust IP40-rated enclosure and is equipped with a powerful aspirator that provides a total pipe length of 800m.

Intelligent VEU 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 VEU 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

- ✓ VEU-A00-NTF and VEU-A10-NTF connect to the Signaling Line Circuit (SLC) loop of the AFP-3030. 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

VEU-A00-NTF	VESDA-E Addressable 1 pipe VEU with LED display
VEU-A10-NTF	VESDA-E Addressable 4 pipe VEU with 3.5" Display

APPROVALS

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

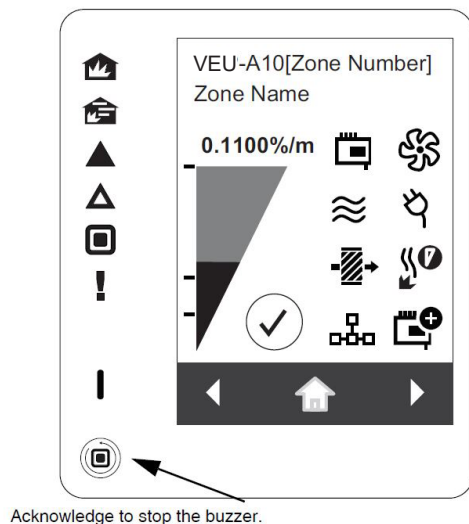
- ✓ ActivFire certified - Listing No. afp-2953
- ✓ UL/ULC Listed: S5198 Vol 20.
- ✓ CSFM: 7259-1728:0502.

TECHNICAL SPECIFICATIONS

Supply voltage	18-30Vdc (24V Nominal)					
Detector current consumption @ 24Vdc	VEU-A00-NTF			VEU-A10-P-NTF		
Aspirator setting	1	5	10	1	5	10
Normal operation ¹	290mA	370mA	590mA	330mA	410mA	630mA
In alarm ¹	320mA	400mA	620mA	360mA	330mA	660mA
SLC current consumption						
Normal Operation	8mA	8mA	8mA	8mA	8mA	8mA
In Alarm	8mA	8mA	8mA	8mA	8mA	8mA
Dimensions	350mm W x 225mm H x 135mm D					
Weight	4.0kg			4.9kg		
Operating Conditions	Ambient: 0°C to 39°C Sampled Air: -20°C to 60°C Humidity: 5% to 95% RH, non-condensing					
Area Coverage	6,500m ²					
Min. Airflow per Pipe	15L/m					
Pipe lengths (depending on number of pipes in use)	1 Pipe	2 Pipes		3 Pipes		4 Pipes
	160m	150m		130m		100m
Maximum pipe lengths	Total Pipe Length (with branches): 800m					
No. of holes (A/B/C)	80/80/100					
Computer design tool	ASPIRE					
Pipe	Inlet: External diameter 25mm (3/4 in IPS) Exhaust: External diameter 25mm (3/4 in IPS) via adapter					
Relays	7 pre-configured relays Contacts rated 2A @ 30Vdc (Resistive)					
IP Rating	IP40					
Cable Access	4 x 26 mm cable entries					
Cable Termination	Screw Terminal blocks 0.2–2.5 sq mm (24–14 AWG)					
Dynamic Range	0.0002%/m to 20% obs/m					
Sensitivity Range	0.001% to 20% obs/m					
Threshold Setting Range	Alert: 0.001% to 2.0% obs/m Action: 0.001% to 2.0% obs/m Fire1: 0.001% to 2.0% obs/m Fire2: 0.001% to 20.0% obs/m					
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.					

¹If Ethernet port is in use add additional 10mA. If WiFi port is in use add additional 20mA.

USER INTERFACE 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
	Communication Fault
	StaX Module Fault