The VESDA-E VEA Expansion StaX extends sampling capability of a VESDA-E VEA Aspirating Smoke Detector by up to 40 addresses. It directly connects to the VEA detector for power and control. Depending on the configuration, a VEA detector can power and control up to two (2) Expansion StaX.

**Installation, Commissioning and Maintenance**

The VEA Expansion StaX features a robust IP40-rated enclosure. The Expansion StaX has the same external dimensions as a VEA detector making it easy to install. The Expansion StaX can be mounted above or below the detector. A spacer is provided to precisely align the Expansion StaX mounting bracket with the detector mounting bracket, the same spacer is used to provide correct spacing in case of direct mounting to the wall.

The Expansion StaX is fully supported by the Xtralis VSC software package for system commissioning and maintenance. Local smoke test ports are used during servicing to verify that the system is fully operational.

Field replaceable filter, smoke sensor module, pump and rotary valve components result in less down time and ease of maintenance.

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**Features**

- Pinpoint addressability with superior detection compared to spot detectors
- 40 addressable microbore tubes with individual sampling points
- Assured detection with end to end system integrity monitoring
- Interruption-free business operation with centralized testing and maintenance
- Single sampling point or single tube blockage detection
- Automatic sampling point presence and tube breakage detection
- Automatic sampling point cleaning
- Three sensitivity settings
- Variable length capillary tubes, up to 100 m (328 ft)
- Laser-based absolute smoke detection
- Dual stage filtering and clean air barrier for optics protection
- Reliable linear pump technology
- Xtralis VSC and V5M4 PC software support
- PC software support
- iVESDA app for system monitoring on mobile devices
- IP 40 enclosure (not UL tested)
- Easy mounting with steel support bracket
- Field replaceable filter, smoke sensor module, pump and rotary valve
- Easy cable termination access

**Listings / Approvals**

- UL
- ULC
- EN 54-20, ISO 7240-20: Class A, B and C
- Other major agency approvals pending

Regional approvals listings and regulatory compliance vary between product models. Refer to www.xtralis.com for the latest product approvals matrix.
Specifications

**Supply Voltage**
18 to 30 VDC

**Power Consumption @ 24VDC**
- Average Quiescent: 27W
- Average Alarm: 27W

**Peak current (scan mode)**
3.5A

**Aspirator**
Linear Vacuum Pump

**Dimensions (WHD)**
352 mm x 336 mm x 135.5 mm (13.9in x 13.2in x 5.33in)

**Weight**
9.5 kg (20.9 lbs)

**Operating Conditions**
- Ambient: 0°C to 39°C (32°F to 102°F)
- Sampled Air: 0°C to 50°C (32°F to 122°F)
- Tested to: 0°C to 49°C (32°F to 120°F)*
- Humidity: 10% to 95% RH, non-condensing

**Storage Conditions**
- Humidity: Dry (<95%)
- Temperature: 0° to 85°C
- Must not be exposed to sunlight or other radiation sources

**Microbore Tube Size**
- Normal Diameter: OD 6 mm, ID 4 mm
- Reduced Diameter: OD 4 mm, ID 2.5 mm

**Microbore Tube Length**
- Normal Diameter: Up to 100m (328 ft) per tube
- Reduced Diameter: Up to 15m (49 ft) per tube

**Flow Monitoring**
Single sampling point and single tube blockage and breakage detection

**IP Rating**
IP40 (not UL tested)

**Cable Access**
4 x 25 mm (1”) cable entry ports

**Pre-alarms**
- Alert and Action - two pre alarm levels

**Sensitivity**
0.020%/m (0.006%/ft) - 16%/m (5%/ft)

**Fire-1 Alarm Thresholds at the Sampling Hole**
- High: 1.6 %/m (0.50 %/ft)
- Enhanced: 4.0 %/m (1.3 %/ft)
- Standard: 8.0 %/m (2.5 %/ft)

* Product UL Listed between 0°C to 39°C (32°F to 102°F)

How it works
The Expansion StaX provides smoke detection for an additional 40 tubes. The Expansion StaX must be used in conjunction with the VESDA-E VEA detector.

All power supply, user interface, alarm reporting and other communications to the fire panel and to secondary monitoring systems are handled by the VEA detector.

Each VEA detector can support one or two Expansion StaX.

Ordering Information**

**VESDA-E VEA-40 Expansion StaX**
**VESDA-E VEA Expansion StaX**
**VESDA-E VEA-40 Mounting Bracket**
**VESDA-E VEA-40 Smoke Sensor Module**
**VESDA-E VEA Filter**
**VESDA-E VEA Pump**
**VESDA-E VEA Rotary Valve**
**VESDA-E VEA-040-STX**

**Spare Parts**

**VESDA-E VEA Expansion StaX**
**VESDA-E VEA-040-STX**

**Approvals Compliance**
Please refer to the Product Guide for details regarding compliant design, installation and commissioning.