

HIGH SENSITIVITY ASPIRATION SMOKE DETECTION - (HSSD-VE)

VLF-250 & VLF-500



Characteristics

- Immediate installation and commissioning
- Ultrasonic Flow Meter
- Absolute smoke detection based on laser technology
- Predefined pipeline network designs
- Programmable alarm thresholds
- Optical protection by clean air barrier
- Instant recognition screen
- Instant Fault Locator
- AutoLearn™ smoke level auto-learning
- AutoLearn™ Airflow auto-Learning
- Access door for maintenance
- Multiple event classification
- Logging up to 18,000 events
- Ability to configure with / without connection
- VLF-250 Coverage up to 250 m²
- VLF-500 Coverage up to 500 m²

Specifications

- **Input power**
Supply voltage VLF-250: 24 Vdc (18-30 Vdc)
Current at 24 Vdc: 220 mA nominal, 295 mA in alarm
VLF-500: 410 mA nominal, 490 mA alarm
 - **Dimensions** (WxHxD) 256x183x92 mm
 - **Weight** Approx. 2 kg
 - **Protection level:** IP30 rating
 - Vertical, inverted or horizontal mounting
 - **Operating conditions**
Ambient detector: 0°C to 39°C*
Tested at: -10°C to 55°C
Air sample: -20°C to 60°C
 - **Humidity:** 5% to 95% (non-condensing)
 - **Pipe network**
Maximum pipe length VLF-250: 1 x 25 m (Max. 12 holes) or 2 x 15 m for each branch (Max. 6 holes x branch), VLF-500: 1 x 50 m (Max. 24 holes) or 2 x 30 m for each branch (Max. 12 holes per branch)
 - Predefined hole options or maximum length of air sample ducts: according to the pipe design tool (ASPIRE2™)
 - **Air inlet pipe**
The size of the pipe is accepted in unit of standard metric and American standard.
Outer diameter: 25 mm (1.05")
Internal diameter: IPS 21 mm (3/4")
Surface coverage VLF-250: Up to 250 m², VLF-500 Up to 500 m² depending on local rules and regulations
 - **Relay outputs**
3 switching relays (Fire, Action, Fault), Contacts rated 2A at 30 VDC (max). NA/NC Contacts
- Listings / Approvals**
- UL / ULC / FM / CFE / LPCB / VdS / VNIIP0 / AFNOR / ActivFire / CE - EMC / CPD
 - IN 54-20
 - VLF-250
Class A (12 holes / 0.12% obs/m)
Class B (12 holes / 0.35% obs/m)
Class C (12 holes / 0.80% obs/m)
 - VLF-500
Class A (30 holes / 0.05% obs/m)
Class B (30 holes / 0.15% obs/m)
Class C (30 holes / 0.32% obs/m)
 - Design and classification using SW ASPIRE2.
- Item Codes:** VLF-250-00/01, etc. & VLF-500-00 / 01, etc ...



VES



Characteristics

- Manageability of up to 4 sectors
- Adaptive Scan Threshold
- Flair detection for early warning, minimizes false alarms
- Multiphase filtration and optical protection with clean air barriers ensure the durability and performance of the detection function
- 4 alarm levels configurable by sector and wide sensitivity range
- Intuitive LCD display displaying status information for instant response
- Per-port flow failure thresholds accommodate variable airflow conditions
- Integrated smart filter that retains dust buildup and maintains filter life for predictable maintenance
- Event log (20,000 events) for event analysis and system diagnostics
- AutoLearn™ in smoke flow for fast start-up
- Backward compatibility with VLS and VESDAnet
- Ethernet available for fast connectivity with Xtralis software, for configuration, maintenance, and secondary monitoring
- Available via Wifi maintenance and secondary supervision
- USB for PC setup and firmware update
- Two programmable GPIs (1 monitored) for flexible remote control
- Replaceable parts enable faster service and better activation time

Specifications

- **Power supply:** 18-30 VDC (24 V Nominal)
 - **Power consumption at 24 Vdc:**
VES-A00-P max. 14.8 W
VES-A10-P max. 15.4 W
 - **Dimensions** (W x H x D) 350 x 225 x 135 mm
 - **Weight:** 4.3 kg (A00-P) and 4.4 kg (A10-P)
 - **Environmental conditions:** 0°C to 39°C*
Tested air (EN54-20): -10°C to 55°C
Sampling air: -20°C to 60°C**
 - **Humidity:** 5% to 95% H.R., S/C
 - **Coverage area** 2,000 m²
 - **Pipe length (linear)** 280 m**
 - **Pipe length (branched)** 560 m**
 - **Inlet pipe:** ∅ external 25 mm
 - **Relays:** 12 programmable relays (with or without locking), contacts from 2 A to 30 VDC (resistive)
 - **IP Level:** IP40
- Listings / Approvals**
- UL / ULC / CSFM / VdS / ActivFire
 - EN 54-20, ISO 7240-20
Class A (40 holes / Fire 1 = 0.067% obs/m)
Class B (80 holes / Fire 1 = 0.085% obs/m)
Class C (100 holes / Fire 1 = 0.251% obs/m)
 - Design and classification using SW ASPIRE2.
- Item codes:** VES-A00-P, VES-A10-P, ...



VEU



Characteristics

- High-sensitivity Flair technology camera for applications in a wide variety of environments with minimal unwanted alarms
- Multi-stage filtration for optical protection using clean air barriers that ensure degradation-free calibration throughout its life
- Four alarm thresholds and a very wide detection range, for optimal protection of the most extensive list of applications
- LCD display with intuitive icons for instant display of unit status
- Flow sensors per tube, thresholds can be accommodated to any environment
- Included smart filter memorizes filter contamination and calculates remaining life for predictive maintenance
- Extensive event log (20,000 events)
- AutoLearn™ (Learning) of smoke levels and flow rates for a very fast start-up
- LCD reference of external environmental conditions to discount other people's contaminations and reduce unwanted alarms
- Full VLP and VESDAnet support
- Remote monitoring via iVESDA by the user and for predictive maintenance
- Ethernet connectivity with Xtralis programs for configuration, centralized monitoring, mnt.
- First detector in the industry to incorporate WiFi communications for monitoring and mnt.
- USB connection for configuration and firmware update via USB stick
- Two programmable inputs (1 monitored) for easy system integration and control
- The modules that make up the detector can be replaced on site, for quick mnt. and repair.

Specs

- **Power supply:** 18 to 30 VDC (24Vdc Nominal)
 - **Dimensions** (W x H x D): 350x225x135cm
 - **Weight:** 4.9 kg
 - **Operating conditions:** Tested -10°C to 55°C
Ambient detector: 0°C / 39°C
Air sampling: -20°C to 60°C
 - **Humidity:** 10% to 95% H.R., S/C
 - **Sampling network area:** 6500 m²
 - **Minimum airflow per pipe:** 15 l/m
 - **Total pipe length (with branches):** 800m
 - **Pipe length depending on the number of tubes in use:** 1 Tube = 160m / 2 Tubes = 150m / 3 Tubes = 130m / 4 Tubes = 100m
 - **Analytics:** DieselTrace™, DustTrace™, WireTrace™
 - **StaX:** PSU, Automatic Pipe Cleaning
 - **Tube External diameter:** 25 mm
 - **Relays:** 7 programmable relays (2A at 30VDC)
- Listings / Approvals**
- UL / ULC / ActivFire / CE / VdS and EN 54-20
- Class C (100 shots at 0.062% obs/m Fire 1)
- Class B (80 shots at 0.026% obs/m Fire 1)
- Class A (80 shots at 0.015% obs/m Fire 1)
 - Design and classification using SW ASPIRE2.
- Item Codes:** VEU-A00/A10, ...



VEA



Characteristics

- Position addressing with superior detection compared to point detectors
- 40 addressable fine gauge tubes with individual sampling points
- Secured detection with comprehensive system integrity monitoring
- Seamless operation for the business world, with centralized testing and maintenance
- Single-sample point or single-tube blockage detection
- Automatic detection of the presence of sampling points and tube breakage
- Automatic cleaning sampling points
- Three sensitivity settings for sampling points
- Capillary tubes of variable length, up to 100 m (330 ft)
- Absolute smoke detection via laser
- Coarse particle filtering and clean air barrier for optical instrument protection
- Reliable linear pump technology
- LED alarm lights and fault signals
- 3.5" color touchscreen for status display
- 7 programmable relays
- 2 GPI inputs, 1 supervised and one non-GPI input
- Support for Xtralis VSC and VSM4 PC software
- iVESDA application for system monitoring using mobile devices
- IP 40 housing (not tested for UL)
- Easy mounting with steel support bracket
- On-site replaceable filter, smoke sensor module, pump and rotary valve
- VESDAnet Network Connectivity
- 100BASE-T Ethernet
- WiFi, 802.11 b/g/n
- localhost USB port
- Easy access to cable terminations
- Event Log (20,000 events)

Specs

- **Power supply:** 18 to 30 VDC (24Vdc)
 - **Dimensions** (WxHxD): 352x336x135cm
 - **Weight:** 10 kg
 - **Operation:** Tested 0°C to 49°C
 - **Ambient detector:** 0°C / 39°C
 - **Air sampling:** 0°C to 50°C
 - **Humidity:** 10% to 95% H.R., S/C
 - **Fine gauge tubes:** D.ext 6mm / Int 4mm
 - **Fine gauge tube length:** 100m
 - **Communication interfaces:** USB 2.0, Ethernet (RJ45), WiFi (802.11 b/g/n)
 - **Relays:** 7 programmable relays (2A at 30VDC)
- Listings / Approvals**
- UL / ULC / EN 54-20 / ISO 7240-20 Classes A, B, C
- Item codes:** VEA-040-A00 / A10, ...

