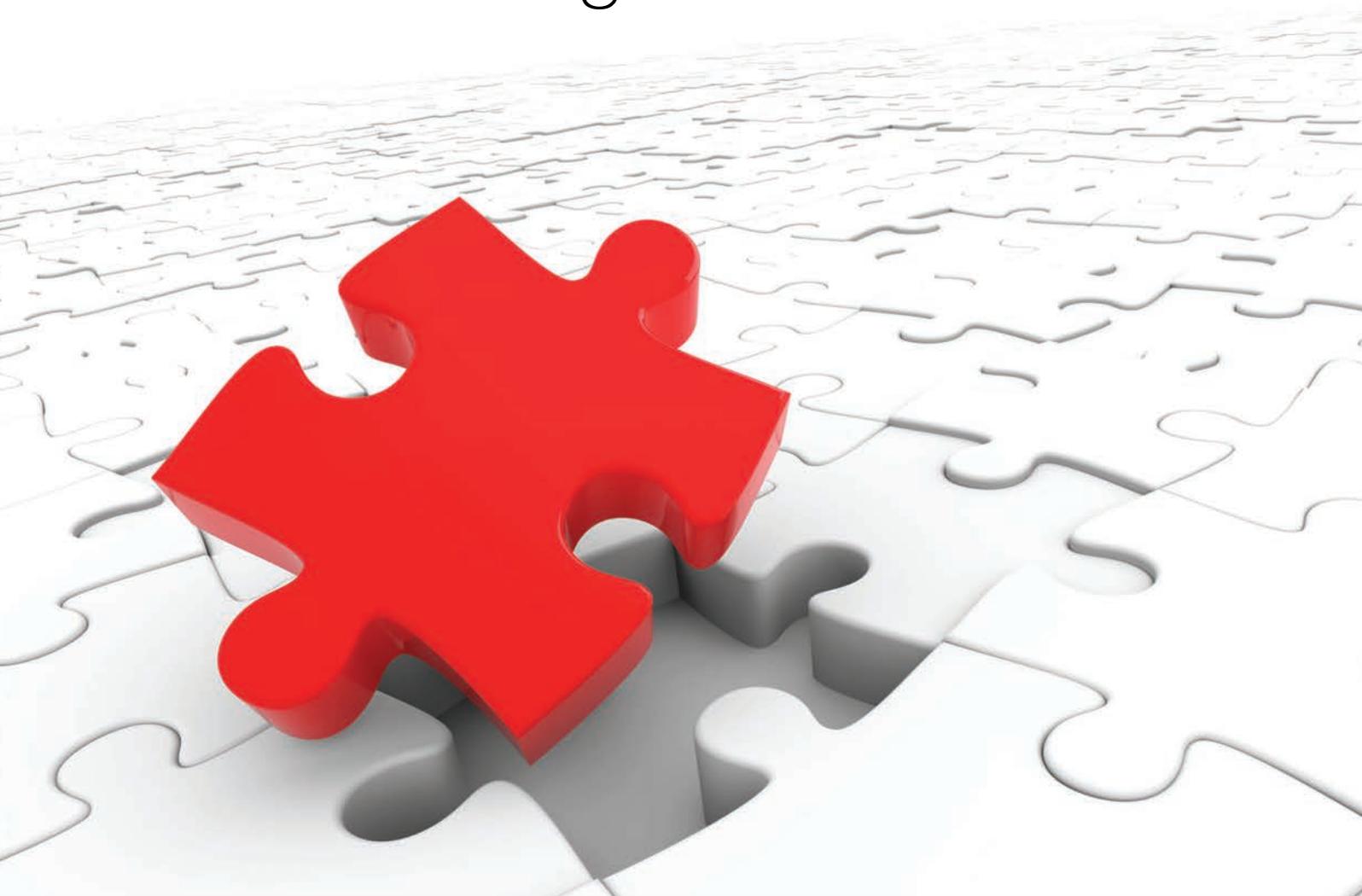




**xtralis**<sup>®</sup>  
The sooner you know<sup>®</sup>

# Safety Solutions Products Catalog - Americas



[www.xtralis.com](http://www.xtralis.com)

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## About Xtralis

Xtralis is the leading global provider of powerful solutions for the early and reliable detection and remote visual verification of fire, gas and security threats. Our technologies prevent disasters by giving users time to respond before life, critical infrastructure or business continuity is compromised. We protect high-value and irreplaceable assets belonging to the world's top governments and businesses.

Xtralis has been a pioneer in life safety and security for more than 30 years. We are the world's largest manufacturer of very early warning aspirating smoke detection (ASD) systems, including VESDA, the world's No. 1 ASD brand, and developed the industry's first video motion detection technologies. With more than 230 patents (granted or pending) and numerous firsts and innovations in our technology portfolio, Xtralis leads the market in very early warning fire detection (VEWFD) and integrated security solutions, including perimeter, intrusion detection, multi-site and enterprise security detection.

Xtralis manufactures our life safety and security solutions using targeted Six Sigma techniques and design reliability analysis, and they have been certified by more than 35 regulatory agencies worldwide. Because of our expertise in fire science and security, we work closely with these organizations to continually enhance or develop new international standards.

### **Xtralis solutions protect:**

- 90% of multi-national fire and security OEMs distribute Xtralis solutions
- 80% of semiconductor manufacturing facilities are protected by Xtralis
- 80% of the global top 10 telecom providers prevent downtime with Xtralis
- Over 70% of the top 30 data centers and 50% of data centers globally
- 60% of new airport construction uses Xtralis
- Approximately 50% of new metro and subway construction
- More than 50,000 Xtralis traffic detectors reduce vehicle congestion and accidents

### **The award-winning Xtralis portfolio includes:**

- VESDA-E VEWFD Aspirating Smoke Detection (ASD)
- VESDA Aspirating Smoke Detection (ASD)
- Industrial VESDA VLI ASD for Industrial Applications
- VESDA ECO Gas Detection and Environmental Monitoring
- OSID Open-area Smoke Detection
- ADPRO Perimeter and Intrusion Detection Solutions
- HeiTel Remote Monitoring and CMS Solutions

Learn more: [www.xtralis.com](http://www.xtralis.com)

# ABOUT XTRALIS

## Safety Products

Xtralis is the inventor and pioneer of VESDA aspirating smoke detection (ASD) technology and remains the world's No. 1 supplier of ASD systems. Top governments and businesses around the globe rely on Xtralis for technically superior life safety solutions to protect people, critical infrastructure and high-value or irreplaceable assets.

### **VESDA-E: The Next Generation of Aspirating Smoke Detection**

VESDA-E is the next generation of aspirating smoke detection (ASD) from Xtralis. VESDA-E offers ultra-sensitive ASD; 15 times better than current VESDA models with double the longevity, improved dust rejection, and 8% less power consumption per unit area. VESDA-E brings precision addressability to ASD with flexible tubing up to 120 holes per system. Other advanced features, including StaX expansion modules, add capabilities like gas detection and analytics software for enhanced detection and monitoring; connectivity from WiFi to Ethernet and smart devices, and remote field programmability. VESDA-E is the most advanced, reliable, and flexible ASD system ever.

### **Very Early Warning Smoke Detection**

Xtralis provides highly reliable smoke detection at the earliest presence of fire while discriminating against false alarms. Conventional fire detection does not offer adequate protection because toxic smoke can begin to spread, and fire damage can occur before a warning is issued. In contrast, Xtralis' VESDA aspirating smoke detection (ASD) systems continuously sample the air for the smallest traces of smoke to provide valuable time to understand a threat and stage an intelligent response. Our powerful life safety solutions provide reliable smoke detection in zero-tolerance environments, adhering to the highest safety standards and mitigating risks to facilities, assets and personnel.

### **Gas Detection and Environmental Monitoring**

Xtralis offers more than just fire detection solutions. Our VESDA ASD systems can be extended to include gas detection and environmental monitoring.

VESDA ECO can be used to detect smoke as well as hazardous/combustible gases that pose unseen threats. These solutions provide cost-effective, 24/7 active air sampling for the early detection of gas leaks even in the toughest of environments.

### **Open-area Smoke Detection**

Fire detection for buildings with open spaces presents unique challenges, and very early warning may not always be the priority. When only standard sensitivity detection is required, Open-area Smoke Imaging Detection (OSID) by Xtralis offers the most reliable and cost-effective smoke detection solution for open spaces. It delivers superior performance to overcome all of the shortcomings inherent to other detection systems currently used in these applications such as beam, heat and flame detectors.

SAFETY PRODUCTS

# Choose the Right Product for your Segment and Application

Segment	Coverage	2000m <sup>2</sup>					1500m <sup>2</sup>	1000m <sup>2</sup>	800m <sup>2</sup>			500m <sup>2</sup>	250m <sup>2</sup>	2000m <sup>2</sup>	
	Detection	UVEW	AEW	VEW	AVEW	IVEW	AVEW	VEW	VEW	EX	Marine	VEW	Beam	PIAB	
	Product	VEU	VEA	VEP-4	VLP	VLS	VLI	VFT-15	VEP-1	VLC		VLF	OSID	XAS	
IT and Communications															
Clean Room															
Highrise and Residential															
Manufacturing															
Airport															
Railway															
Logistics / Warehouse															
Logistics / Cold Storage															
Correctional Facilities															
Cultural and Heritage															
Power															
Retail and Commercial															
Oil and Gas															
Sporting Venues															
Education															
Waste Recycling															
Mining															
Marine															
Void Protection															
Return Air															
Cabinet Protection															
Duct Detection															
Tunnel (cable or other)															
Lift Shaft															
Small Computer Room															
Open Area Protection															
Harsh Environment															
Control Room															
Switch Room															
Restricted Access Room															
In-Rack															
Conveyor															
Special Hazard (Ex)															
Car Parks (underground)															

VEW	Very Early Warning Smoke Detection
UVEW	Ultra Very Early Warning Smoke Detection
AVEW	Addressable Very Early Warning Smoke Detection
IVEW	Industrial Very Early Warning Smoke Detection

AEW	Addressable Early Warning Smoke Detection
EX	Class 1 Div2
PIAB	Point-In-A-Box

# VESDA Models Comparison Chart

Features	VESDA-E				VESDA						VESDA Industrial Products	
	VEU	VEP		VEA	VLP	VLS	VLC (VN)	VLC (RO)	VLF 250/500	VFT-15	VLI	VLC-EX
		VEP-1	VEP-4									
<b>Pipes and area coverage</b>												
Pipe Length (Linear)	400 m (1,312 ft)	100 m (328 ft)	280 m (919 ft)	40 x 100 m (40 x 328 ft)	200 m (656 ft)	200 m (656 ft)	80 m (262 ft)	25/50 m (82/164 ft)	15 x 50 m (15 x 164 ft)	360 m (1,181 ft)	80 m (262 ft)	
Pipe Length (Branched)	800 m (2,624 ft)	130 m (427 ft)	560 m (1,837 ft)	N/A	400 m (1,312 ft)	400 m (1,312 ft)	100 m (328 ft)	30/60 m (98/197 ft)	N/A	445 m (1,460 ft)	100 m (328 ft)	
Area Coverage	6,500 m <sup>2</sup> (69,965 sq ft) *	1,000 m <sup>2</sup> (10,760 sq ft)	2,000 m <sup>2</sup> (21,520 sq ft)	2,000 m <sup>2</sup> (21,520 sq ft) 40-120 sample holes	2,000 m <sup>2</sup> (21,520 sq ft)	2,000 m <sup>2</sup> (21,520 sq ft) across 4 sectors	800 m <sup>2</sup> (8,610 sq ft)	250/500 m <sup>2</sup> (2,690/5,380 sq ft)	1,500 m <sup>2</sup> (16,140 sq ft) across 15 sectors	2,000 m <sup>2</sup> (21,520 sq ft)	800 m <sup>2</sup> (8,610 sq ft)	
No. of Pipe Inlets	4	1	4	40 expandable to 120 tubes	4		1	1	15	4	1	
Multiple Pipe Addressability	No	No	Up to 120	No	Up to 4	No	No	No	Up to 15	No	No	
<b>Sensitivity</b>												
Min Fire 1 Threshold	0.001%obs/m (0.0003%obs/ft)	0.01%obs/m (0.0031%obs/ft)	1.6%obs/m (0.5% obs/ft)		0.015% obs/m (0.0046% obs/ft)			0.025%obs/m (0.008% obs/ft)	0.01%obs/m (0.0031%obs/ft)	0.15%/m (0.046%/ft)	0.015%obs/m (0.0046%obs/ft)	
Detection Range	0.001 - 20.0%obs/m (0.0003 - 6.25%obs/ft)	0.005-20%obs/m (0.0016- 6.25%obs/ft)	0.020 - 16%obs/m (0.006 - 4.88%obs/ft)		0.005 - 20% obs/m (0.0016 - 6.25% obs/ft)			0.025 - 20%obs/m (0.008 - 6.25%obs/ft)	0.001 - 20%obs/m (0.0003 - 6.25%obs/ft)	0.005 - 20.0%obs/m (0.0016 - 6.25%obs/ft)	0.005 - 20%obs/m (0.0016 - 6.25%obs/ft)	
<b>EN54-20 (Class A / B / C)</b>												
Max. no of Holes	80/80/100	30/40/45	40/80/100	40-120 (B and C)	30/60/100	40/40/60	30/36/40	VLF 250 12/12/12 VLF 500 30/30/30	15/15/15	24/28/60	30/36/40	
Sensitivity (%obs/m)	≥ 1.5/3/10	≥ 1.5/3/8	≥ 1.6/3/4/8		≥ 1.5/4.5/10	≥ 3.9/11/50	≥ 1.5/4.5/10	≥ 1.5/4.5/10	≥ 0.1/0.1/1	≥ 1.5/4.5/10	≥ 1.5/4.5/10	
Transport time (seconds)	70/90/110	60/90/110	Pending		60/90/120	75/90/90	60/90/120	VLF 250 60/60/60 VLF 500 90/90/90	30/30/30	60/90/120	60/90/120	
<b>Others</b>												
Hazardous Area Approval (FM Class 1, Div 2, Groups A, B, C, D)	Pending	No	Pending	N/A	Yes	No	Yes	Yes	Yes	No	Yes	Yes
IP Rating	IP40	IP40	IP40	IP40	IP30	IP30	IP30	IP30	IP30	IP30	IP66	IP54
Two Stage Filtration	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Patented Intelligent Filter Secondary Foam Filter Sub-Sampling Probe	Yes
Total Number of Alarm Thresholds	4 (Day/Night)				4 (Day/Night)	16 (Day/Night)	3	3	4 (Day/Night)	60 (Day/Night)	4 (Day/Night)	3
Relay Outputs	7	7	7 (Expandable to 127)	7	7 or 12	3	3	3 (Expandable to 6)	5 (Expandable to 21)	5	3	
On-board Memory (Max. Events)	20,000	20,000	20,000	18,000	18,000	12,000	12,000	18,000	Up to 20,000	18,000	12,000	
AutoLearn™ (Smoke/Flow)	AutoLearn Smoke™ AutoLearn Flow™			No	Yes (Smoke)	Yes (Smoke)	Yes (Smoke)	Yes (Smoke)	AutoLearn Smoke™ AutoLearn Flow™	No	AutoLearn, Smoke™, AutoLearn, Flow™	Yes (Smoke)

Features	VESDA-E				VESDA						VESDA Industrial Products	
	VEU	VEP		VEA	VLP	VLS	VLC (VN)	VLC (RO)	VLF 250/500	VFT-15	VLI	VLC-EX
		VEP-1	VEP-4									
Bar Graph / Indicator LED	LEDs or 3.5" Colour Touch Screen	LEDs	LEDs or 3.5" Colour Touch Screen	LEDs or 3.5" Colour Touch Screen	Local or Remote (20 segment bargraph display)	Local or Remote (20 segment bargraph display)	Local (5 on-board LEDs). Remote (20 segment bargraph display)	Local (5 on-board LEDs)	Local (7 on-board LEDs 10 Segment Circular Display) Remote display when fitted with VESDAnet card	Yes	Local (5 on-board LEDs) Remote display for VLI-885	As per VLC (VN) and VLC (RO)
Programming Tools - On-board Programming module - Handheld Programmer - PC Software (VSC, VSM)	Programmed via USB/ Ethernet/ WiFi connection to PC using VSC/VSM4				Yes	Yes	Yes	Programmed via RS232 direct connection to PC using VSC	Programmed via RS232 direct connection to PC using VSC or Programmer when VN card is fitted	On-board programmer and PC Software (VSC/VSM4)	Local USB configuration port Connection to PC using VSC/VSM4 Programmer for VLI-885	As per VLC (VN) and VLC (RO)
StaX Expandability	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
Analytics	Yes	Yes	No	No	No	No	No	No	No	No	No	No
<b>VESDAnet™</b>												
Max. No. of devices/detectors per loop	200/100	200/100	200/100	200/100	200/100	200/100	200/100	N/A	200/100 (with VN Card)	N/A	200/100 (VLI-885)	200/100 (VN version)
Max. Distance between Devices	1,300 m (4,265 ft)	1,300 m (4,265 ft)	1,300 m (4,265 ft)	1,300 m (4,265 ft)	1,300 m (4,265 ft)	1,300 m (4,265 ft)	1,300 m (4,265 ft)	N/A	1,300 m (4,265 ft) (with VN Card)	N/A	1,300 m (4,265 ft) (VLI-885)	1,300 m (4,265 ft) (VN version)
Computer-based Management via VSM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes (VN version)
Remote Relay Modules - 7 relay version - 12 relay version	VRT-500 N/A	VRT-500 N/A	VRT-500 N/A	VRT-500 N/A	VRT-500 N/A	VRT-E00 VRT-900	VRT-500 N/A	N/A	VRT-500 N/A	N/A	VRT-500 N/A	VRT-500 (VN version)
Compatible Remote Bargraph Displays - Display, 7 relays - Display, 12 relays- Display, no relays	VRT-200 N/A VRT-600	VRT-200 N/A VRT-600	VRT-200 N/A VRT-600	VRT-200 N/A VRT-600	VRT-200 N/A VRT-600	VRT-400 VRT-800 VRT-700	VRT-J00 N/A VRT-K00	N/A	VRT-V00 N/A VRT-W00 (with VN Card)	N/A	VRT-Q00 N/A VRT-T00 (VLI-885)	As per VLC (VN) and VLC (RO)

\* System design and regulatory requirements may restrict the monitoring area to a lesser amount.

# VESDA-E The Next Generation of VESDA Aspirating Smoke Detectors



## Innovative Capabilities

VESDA-E is the next-generation of VESDA, featuring multiple innovative capabilities that dramatically improve the VESDA experience: VESDA Smoke+, offers increased sensitivity – up to 15 times greater than VESDA VLP, improved dust rejection, double the longevity while maintaining sensitivity over its lifetime, up to 8% less power consumption per unit area.

- **VESDA Flex**, future proof expandability and programming for maximum flexibility using, StaX Hardware expansion modules that easily bolt onto the VESDA-E detector to add additional capabilities, and Xtralis Software Analytics applications (Xapps) that can be purchased, downloaded, configured and managed remotely over the internet.
- **VESDA Analytics**, allows for additional unique capabilities that enable the system to provide targeted detection and response, Analytics currently available includes DieselTrace™, WireTrace™ and DustTrace™.
- **VESDA Verify**, provides situational awareness to improve response time, efficiency and effectiveness by providing up to 120 pinpoint addressability.
- **VESDA Connect**, allows for flexible networking and programming options that reduce maintenance and monitoring costs through extensive connectivity options and remote diagnostics tools including Ethernet, Wi-Fi, USB, VESDAnet and Relays.
- **VESDA TCO**, reduces the Total Cost of Ownership (TCO) through Capex value, Opex savings, Plug'n'Play installation, design-less pipe networks, vast monitoring options and backwards compatibility. With VESDA-E you can reduce TCO by up to 15%.

## How VESDA-E Works

Air is continually drawn from the protected area through the air sampling pipe network and into the detector by a high efficiency aspirator. The air sampling pipe network can contain up to four pipes. The air from each sampling pipe passes through an airflow sensor and then a sample of the air is drawn into the smoke detection chamber via the sampling module, after first passing through the filter. An additional filter provides clean air to protect the optical surfaces inside the detection chamber from contamination.

The Flair™ detection chamber uses the equivalent of 330,000 sensors and sophisticated algorithms for smoke detection and particle classification. If the detected smoke is higher than the set alarm thresholds it is reported as an Alert, Action, Fire1 or Fire2 alarm condition. Air is exhausted from the detector and may be vented back into the protected zone. Alarms can be signaled via Relays and VESDAnet. Ethernet and WiFi can be used for configuration and secondary monitoring, and a USB interface is provided for initial setup. A series of LEDs display Alarm, Trouble, Disable and detector power on status. A button allows the user to Reset or Disable the detector. In addition, an optional 3.5" LCD display shows the detector status, including smoke level and a smoke level bar graph, alarm thresholds, trouble status, % airflow level, normalization status and filter life used.



## Applications

- Accommodation (Apartments, Hotels, Shops and Offices)
- Correctional Facilities
- Clean Rooms
- Cold Storage
- Cultural/Heritage
- Data and Telecom
- Hospitals and Healthcare
- Insurance
- Marine
- Nuclear Facilities
- Oil and Gas
- Portable Switch Rooms
- Power Generation
- Records Storage
- Transportation
- Wind Power Generation
- Warehousing

## VESDA-E Products List

VESDA-E VEU	
	<p>The VEU series of aspirating smoke detectors are the premium detector of the VESDA-E range. An Ultra-wide sensitivity range; 15 times greater than VESDA VLP, 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 revolutionary new features provide unsurpassed detection performance, flexibility, field programmability, connectivity and reduced total cost of ownership.</p>
Ordering Codes	Description
<b>VEU-A00</b>	VESDA-E VEU with LEDs
<b>VEU-A10</b>	VESDA-E VEU with 3.5" Display
<b>Approvals:</b> UL, ULC, CSFM, VdS, CPR, CE, ActivFire, FM, EN 54-20, ISO 7240-20 (Class C (100 holes), Class B (80 holes), Class A (80 holes))	
<b>Dimensions:</b> 350 x 225 x 135 mm (13.8 x 8.9 x 5.3 in)	
<b>Weight:</b> VEU-A00 - 4.800 kg (10 lbs 9 oz), VEU-A10 - 4.835 kg (10 lbs 10 oz)	
<b>Area Coverage:</b> 6,500 m <sup>2</sup> (69,965 ft <sup>2</sup> )*	

\* System design and regulatory requirements may restrict the monitoring area to a lesser amount

VESDA-E VEP	
	<p>The VESDA-E VEP series of 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 deliver absolute calibration for lifetime performance and a range of revolutionary new features that deliver user value.</p>
Ordering Codes	Description
<b>VEP-A00-1P</b>	VESDA-E VEP with LEDs, 1 pipe
<b>VEP-A00-P</b>	VESDA-E VEP with LEDs, 4 pipe
<b>VEP-A10-P</b>	VESDA-E VEP with 3.5" Display, 4 pipe
<b>Approvals:</b> UL, ULC, CSFM, FM, ActivFire, CE, VdS, CPR, EN 54-20, ISO 7240-20	
<b>Dimensions:</b> 350 x 225 x 135 mm (13.8 x 8.9 x 5.3 in)	
<b>Weight:</b> VEP-A00-P: 4.0 kg (8.8 lb), VEP-A10-P: 4.1 kg (9.1 lb)	
<b>Area Coverage:</b> VEP-1P: 1,000 m <sup>2</sup> (10,760 ft <sup>2</sup> ), VEP-P: 2,000 m <sup>2</sup> (21,520 ft <sup>2</sup> )	

## VESDA-E VEA



The VESDA-E VEA series of detectors combine VESDA reliability and early warning smoke detection with pinpoint addressability and a variety of annunciation options that truly surpass traditional spot detectors. VEA uses patented sampling points and multi-channel microbore air-sampling with enhanced or standard alarm sensitivity setting for the sampling points. As a multi-channel addressable system, the VEA detector is able to divide a protected space into sampling locations, enabling the localization of a fire for faster incident response. VEA is suitable for the protection of areas where pinpoint location of fire events is essential, thus providing ideal fire detection solutions for offices, hospitals, schools, prisons, multi-story dwellings, cabinets in data centers and warehouse racks. A wide range of features provide flexibility, enhanced connectivity and reduced total cost of ownership.

Ordering Codes	Description
<b>VEA-040-A00</b>	VESDA-E VEA-40 Detector with LEDs
<b>VEA-040-A10</b>	VESDA-E VEA-40 Detector with 3.5" Display
<b>Approvals:</b> UL, ULC, CSFM	
<b>Dimensions:</b> 352 x 336 x 135.5 mm (13.9 x 13.2 x 5.33 in)	
<b>Weight:</b> 12 kg (26.5 lbs)	
<b>Area Coverage:</b> 2,000 m <sup>2</sup> (21,520 ft <sup>2</sup> )	

**Note:** VEA detector, tubes, and sampling points work as a complete system, it is mandatory to use the VEA microbore tubes and sampling points with VEA detectors.

## VESDA-E VEA Expansion StaX



Future proof expandability for maximum flexibility using StaX Hardware expansion modules that easily bolt onto the VESDA-E detector to add additional capabilities.

Ordering Codes	Description
<b>VEA-040-STX</b>	VESDA-E VEA-40 Expansion StaX
<b>Approvals:</b>	
VEA-040-STX	
<ul style="list-style-type: none"> <li>• UL</li> <li>• ULC</li> <li>• Major agency approvals pending.</li> </ul>	

## VESDA-E VEA 40-Relay Local StaX



The VESDA-E VEA Local Relay StaX allows signaling of alarm location from the detector via relays and provides mounting of fire panel loop input modules inside the enclosure.

Ordering Codes	Description
<b>VER-A40-40-STX</b>	VESDA-E VEA 40-Relay Local StaX
<b>Approvals:</b>	
<ul style="list-style-type: none"> <li>• UL</li> <li>• ULC</li> <li>• Major agency approvals pending.</li> </ul>	

# VESDA-E Accessories List

## VESDA-E VEA Accessories

Product Name and Image	Ordering Code	Description
	VSP-970	VESDA-E VEA-20 or VEA-40 Mounting Bracket
	VSP-971	VESDA-E VEA-40 Smoke Sensor Module
	VSP-972	VESDA-E VEA Filter
	VSP-973	VESDA-E VEA Pump
	VSP-974	VESDA-E VEA Rotary Valve
	VSP-975	VESDA-E VEA LED Front Panel
	VSP-976	VESDA-E VEA 3.5" Display Front Panel
	VSP-980-W	VESDA-E VEA 6mm Standard Sampling Point
	VSP-980-W22	VESDA-E VEA 6mm Standard Sampling Point (Pack of 22)
	VSP-981-W	VESDA-E VEA 4mm Standard Sampling Point
	VSP-981-W22	VESDA-E VEA 4mm Standard Sampling Point (pack of 22)
	VSP-980-B	VESDA-E VEA 6mm Black Sampling Point
	VSP-980-B22	VESDA-E VEA 6mm Black Sampling Point (pack of 22)
	VSP-981-B	VESDA-E VEA 4mm Black Sampling Point
	VSP-981-B22	VESDA-E VEA 4mm Black Sampling Point (pack of 22)
	VSP-982-W	VESDA-E VEA 6mm Surface Mount Sampling Point
	VSP-982-W22	VESDA-E VEA 6mm Surface Mount Sampling Point (pack of 22)
	VSP-983-W	VESDA-E VEA 4mm Surface Mount Sampling Point
	VSP-983-W22	VESDA-E VEA 4mm Surface Mount Sampling Point (pack of 22)

Product Name and Image	Ordering Code	Description
	VSP-982-B	VESDA-E VEA 6mm Surface Mount Black Sampling Point
	VSP-982-B22	VESDA-E VEA 6mm Surface Mount Black Sampling Point (pack of 22)
	VSP-983-B	VESDA-E VEA 4mm Surface Mount Black Sampling Point
	VSP-983-B22	VESDA-E VEA 4mm Surface Mount Black Sampling Point (pack of 22)
	VSP-990	VESDA-E VEA 6mm Microbore Tube UL-compliant Plenum-rated, 1000 ft
	VSP-991	VESDA-E VEA 4mm Microbore Tube UL-compliant Plenum-rated, 500 ft
	VSP-998	VESDA-E VEA 6mm Blanking Plug (pack of 50)
	VSP-1000	VESDA-E VEA 6mm to 4mm Reducer (pack of 10)
	VSP-1001	VESDA-E VEA 6mm to 6mm Straight Union (pack of 10)
	VSP-1002	VESDA-E VEA 4mm to 4mm Straight Union (pack of 10)
	VSP-1003	VESDA-E VEA 6mm to 6mm Right Angle Joiner (pack of 10)
	VSP-1004	VESDA-E VEA 4mm to 4mm Right Angle Joiner (pack of 10)

### VESDA-E VEU/VEP Accessories

Product Name and Image	Ordering Code	Description
	VSP-966	VESDA-E VEU-A00 Front Cover with LEDs
	VSP-967	VESDA-E VEU-A10 Front Cover with 3.5" Display

Product Name and Image	Ordering Code	Description
	VSP-968	VESDA-E VEP-A00-P/1P Front Cover Plastic with LEDs
	VSP-969	VESDA-E VEP-A10-P Front Cover Plastic 3.5" Display
	VSP-960	Mounting bracket
	VSP-961	VESDA-E Exhaust Adaptor US
	VSP-962	VESDA-E Filter
	VSP-962-20	VESDA-E Filter - 20 pieces
	VSP-963	VESDA-E Aspirator
	VSP-964	VESDA-E Smoke Detection Chamber
	VSP-965	VESDA-E Sampling Module

### VESDA-E Relay Module

Product Image	Ordering Code	Description
	VRT-X00	VESDA-E Analytics Relay Module

### VESDA-E Demo Kits

Ordering Code	Description
VKT-800	VESDA-E VEU-A10 Demo Kit
VKT-850	VESDA-E VEP Demo Kit
VKT-900	VESDA-E VEA Demo Kit

# Batteries and Power Supplies

## VESDA-E VEA Power Supply

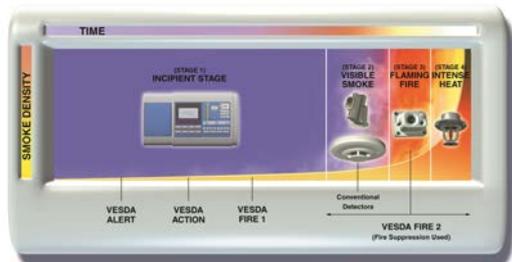
	VPS-VEA-115UL	VPS-VEA-230UL
		
Nominal AC Supply Voltage	120VAC/2.0A/60Hz	230VAC/1.0A/50Hz
Output Current	27VDC/2.8A Continuous 27VDC/5A Alarm	
Dimensions (H x W x D)	438 mm x 330 mm x 142 mm (17.25 in. x 13 in. x 5.6 in.)	
Weight	5.9Kg (13lbs) without batteries	

# VESDA Aspirating Smoke Detection



## The World's No. 1 ASD Brand

VESDA very early warning smoke detection solutions provide the earliest possible warning of an impending fire hazard. VESDA buys time to investigate an alarm and initiate an appropriate response to prevent injury, property damage or business disruption. And because VESDA has the industry's widest sensitivity range and multi-level warnings, even minute levels of smoke can be detected before a fire has time to escalate. As the No. 1 ASD brand specified by fire professionals around the world, VESDA is synonymous with reliable, high performance fire detection.

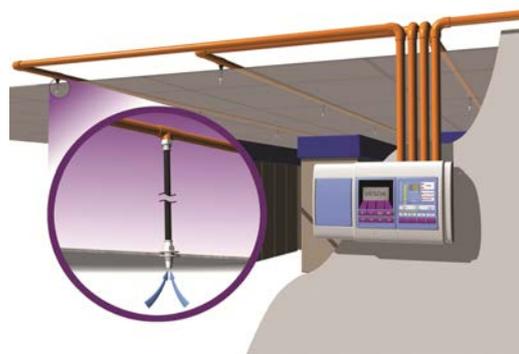


*This diagram shows the progression of a fire over time. Note that the incipient stage of a fire provides the widest window of opportunity to detect and control the spread. VESDA detectors can be configured to generate multiple alarms within the incipient stage. They also can be configured to generate an additional alarm (Fire 2) in the advanced stages of a fire. This feature is unique to VESDA and takes advantage of its wide sensitivity range that enables one detector to monitor the entire progression of a fire.*

## How VESDA Works

VESDA works by continuously drawing air into a distributed pipe network via a high-efficiency aspirator. The air sample then passes through a dual-stage filter. The first stage removes dust and dirt from the air sample before it enters the laser detection chamber. The second, ultra-fine stage provides an additional clean-air supply to keep the detector's optical surfaces free from contamination, ensuring stable calibration and long detector life as well as minimizing nuisance alarms.

From the filter, the air sample goes through the calibrated detection chamber where it is exposed to a laser light source. When smoke is present, light is scattered within the detection chamber and is instantly identified by the highly sensitive receiver system. The signal is then processed and presented via a bar-graph display, alarm threshold indicators and/or graphic display. VESDA detectors are able to communicate this information to a fire alarm control panel, a software management system, or a building management system via relays or a High Level Interface (HLI).



## Applications

- Accommodation (Apartments, Hotels, Shops and Offices)
- Correctional Facilities
- Clean Rooms
- Cold Storage
- Cultural/Heritage
- Data and Telecom
- Hospitals and Healthcare
- Insurance
- Marine
- Nuclear Facilities
- Oil and Gas
- Portable Switch Rooms
- Power Generation
- Records Storage
- Transportation
- Wind Power Generation
- Warehousing

## VESDA Products List

VESDA VLP								
		<p>Central element of the ASD product range. VESDA VLP is classed as a “Very Early Warning Smoke Detector”, which means that it detects fire at the earliest possible stage and reliably measures very low to extremely high concentrations of smoke. Has an alarm sensitivity range of 0.005%–20% obs/m (0.0015%–6.25% obs/ft).</p> <p>All detectors include a head termination card with 7 relays (HTC7) and a socket.</p>						
<b>Ordering Codes</b>		The ordering code for VESDA VLP is VLP-XXX X. The below table explains the available components of the detector and their positions:						
<b>VLP</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		
	0	Blank plate	0	Blank plate	0	Blank plate	0	Standard detector orientation
	4	FOK: Fire 1 Alarm and OK (FOK) LEDs	1	Programmer mounted in the middle	1	Programmer mounted in the far right position	1	Inverted Detector Orientation
			2	Display mounted in the middle	2	Display mounted in the far right position		
<b>Standard ordering codes:</b>								
<b>VLP-002</b>	VLP detector with two blank plates and a standard Display module. The Display module is mounted in the far right position.							
<b>VLP-012</b>	VLP detector with a centrally mounted LCD Programmer module and a Standard Display module.							
<b>VLP-400</b>	VLP detector only enclosure with three blank plates. The plate in the far left position includes Fire 1 Alarm and OK (FOK) LEDs.							
<b>Note:</b>								
<ul style="list-style-type: none"> <li>Not all combinations can be ordered.</li> </ul>								
<b>Approvals:</b> UL, ULC, CSFM, FM, ActivFire, CE, CPR, LPCB, VdS, VNIPO, CFE, AFNOR, EN 54-20 (Class A (30 holes), Class B (60 holes), Class C (100 holes)), UL268A (in-duct application), NY-MEA, CSFM, CCCF								
<b>Dimensions:</b> 350 x 225 x 125 mm (13.8 x 8.9 x 4.9 in)								
<b>Weight:</b> 4.0 kg (9 lbs) including Display and Programmer modules								
<b>Area Coverage:</b> 2,000 m <sup>2</sup> (21,520 ft <sup>2</sup> )								

## VESDA VLS



Similar to the standard VESDA VLP detector, but also includes a valve mechanism in the inlet manifold and software to control the airflow from the four sectors (pipes). This configuration enables a single VESDA zone to be divided into four separate sectors.

All detectors include a head termination card with 7 or 12 relays and a socket.

### Ordering Codes

The ordering code for VESDA VLS is VLS-XXX XX. The below table explains the available components of the detector and their positions:

VLS	X	X	X	X				
	2	7 Relay Version	0	Blank plate	0	Blank plate	0	Standard detector orientation
	3	12 Relay Version	1	Programmer mounted in the middle	1	Programmer mounted in the far right position	1	Inverted Detector Orientation
	6	7 Relay w/FOK LED	4	Scanner display mounted in the middle	4	Scanner display mounted in the far right position		
	7	12 Relay w/FOK LED						

### Standard ordering codes:

<b>VLS-204</b>	VLS detector with two blank plates and a SCANNER Display module. The Display module is mounted in the far right position. 7 Relay version.
<b>VLS-214</b>	VLS detector with a centrally mounted LCD Programmer module and a SCANNER Display module. 7 Relay version.
<b>VLS-304</b>	VLS detector with two blank plates and a Scanner Display module. The Display module is mounted in the far right position. 12 Relay version.
<b>VLS-314</b>	VLS Detector with a centrally mounted LCD Programmer module and a Scanner Display module. 12 Relay version.
<b>VLS-600</b>	VLS detector only enclosure with three blank plates. The plate in the far left position includes FIRE 1 Alarm for any sector and OK (FOK) LEDs. 7 Relay version.
<b>VLS-700</b>	VLS detector only enclosure with three blank plates. The plate in the far left position includes FIRE 1 Alarm for any sector and OK (FOK) LEDs. 12 Relay version.

### Note:

- Not all combinations can be ordered.

**Approvals:** UL, ULC, CSFM, FM, ActivFire, CE, CPR, LPCB, VdS, VNIPO, CFE, AFNOR, EN 54-20 (Class A (40 holes), Class B (40 holes), Class C (60 holes)), UL268A (in-duct application), NY-MEA, CSFM, CCCF

**Dimensions:** 350 x 225 x 125 mm (13.8 x 8.9 x 4.9 in)

**Weight:** 4.0 kg (9 lbs) including Display and Programmer modules

**Area Coverage:** 2,000 m<sup>2</sup> (21,520 ft<sup>2</sup>)

## VESDA VLC



Specifically designed to provide all the benefits of aspirating smoke detection, including very early warning, in single environment medium areas and where space is a premium. The VLC combines the well-proven detection technology with a modified aspirator design, and incorporates them into a compact enclosure with a simplified display.

Ordering Codes	Description
<b>VLC-500</b>	VESDA VLC Relay Only Version, 3 levels of Alarm provided, adjustable sensitivity. Directly programmable with Xtralis VSC software via a serial link connection.
<b>VLC-505</b>	The VN version utilises VESDA Programmers including Hand Held, Remote Mount, Rack Mount versions or PC Link HLI connected to a PC running Xtralis VSC/Xtralis VSM4 software.
<b>VLC-400</b>	VESDA VLC Detector (Apollo Version) This variant of the VLC transmits an analogue signal to any XP95 or Discovery compatible fire panel.
<b>VLC-600</b>	VESDA VLC Detector Simplex
<b>VLC-800</b>	VESDA VLC Tyco (MX) version
<b>Approvals:</b> UL, ULC, CSFM, FM, ActivFire, CE, CPR, LPCB, VdS, VNIPO, CFE, AFNOR, EN 54-20 (Class A (30 holes), Class B (36 holes), Class C (40 holes)), UL268A (in-duct application), NY-MEA, CSFM, CCCF	
<b>Dimensions:</b> 225 x 225 x 85 mm (8.85 x 8.85 x 3.34 in)	
<b>Weight:</b> 1.9 kg (4.2 lbs.)	
<b>Area Coverage:</b> 800 m <sup>2</sup> (8,610 ft <sup>2</sup> )	

## VESDA VLC Marine



The VESDA VLC Marine by Xtralis is a tested and certified aspirating smoke detector for use in marine environments. The VESDA VLC Marine aspirating smoke detector is available in two versions, one that interfaces via relays only (RO) and one that interfaces via relays and VESDAnet (VN).

Ordering Codes	Description
<b>VLC-50000-MRN</b>	VLC - Marine RO
<b>VLC-50500-MRN</b>	VLC - Marine VN
<b>Approvals:</b> <ul style="list-style-type: none"> <li>• DNV Type Approval certificate: A-13709.</li> <li>• DNV Location classes: <ul style="list-style-type: none"> <li>◦ Temperature (D), Humidity (B), Vibration (A), Electromagnetic Compatibility (B), Ingress protection (IP30) or (IP66) with optional enclosure.</li> <li>◦ Environmental tests have been performed according to Lloyd's Register Specification 1 (2002) for environmental categories ENV1, ENV2, and ENV3.</li> </ul> </li> </ul>	
<b>Dimensions:</b> 225 x 225 x 85 mm (8.85 x 8.85 x 3.34 in)	
<b>Weight:</b> 1.9 kg (4.2 lbs.)	
<b>Area Coverage:</b> 800 m <sup>2</sup> (8,610 ft <sup>2</sup> )	

## VESDA VLC-EX



Specifically designed to provide all the benefits of aspirating smoke detection, including very early warning, for the protection of hazardous applications with Class 1 Div 2 classification.

Ordering Codes	Description
<b>VLC-200-EX-US</b>	VLC-200 (RO) Class 1 Div 2 - 2000 ft <sup>2</sup>
<b>VLC-205-EX-US</b>	VLC-205 (VN) Class 1 Div 2 - 2000 ft <sup>2</sup>
<b>VLC-500-EX-US</b>	VLC-500-EX (RO) Class 1 Div 2 - 8000 ft <sup>2</sup>
<b>VLC-505-EX-US</b>	VLC-505-EX (VN) Class 1 Div 2 - 8000 ft <sup>2</sup>

### Approvals:

Hazardous Area Approval (FM Class 1, Div 2, Groups A, B, C, D)

ATEX: II 3G

EN 60079-0:2009 and EN 60079-15:2010

Ex ic nA nC IIB T5 Gc IP54

-10°C ≤ Ta ≤ +55°C

Certificate No: ITS 14 ATEX 48089X

QAN: ITS 11 ATEX Q7454

IECEX: II 3G

IEC 60079-15 Ed4.0 and IEC 60079-0 Ed6.0

Ex ic nA nC IIB T5 Gc IP54

-10°C ≤ Ta ≤ +55°C

Certificate No: IECEX ITS 14.0050X

QAR: GB/ITS/QAR 11.0016/00

**Dimensions:** 268 x 268 x 97 mm (10.5 x 10.5 x 3.8 in.)

**Weight:** 4.9 kg (10.8 lbs)

**Area Coverage:** 800 m<sup>2</sup> (8,610 ft<sup>2</sup>)

## VESDA VLF-250



A very early warning smoke detector designed to protect small, business-critical environments of less than 250 m<sup>2</sup> (2,690 ft<sup>2</sup>).

Ordering Codes	Description
<b>VLF-250-00</b>	VESDA VLF.
<b>VLF-250-SIE</b>	VESDA VLF Siemens version

**Approvals:** UL, ULC, CSFM, FM, ActivFire, CE, CPR, LPCB, VdS, VNIIPPO, CFE, AFNOR, EN 54-20 (Classes A (12 holes), B (12 holes), C (12 holes)), UL268A (in-duct application), NY-MEA, CSFM, CCCF NF and SIL 2 as per IEC 61508 (2010) only for Rail Applications

**Dimensions:** 256 x 183 x 92 mm (10 x 7 x 3 in)

**Weight:** 2 kg (4.4 lbs)

**Area Coverage:** 250 m<sup>2</sup> (2,690 ft<sup>2</sup>)

## VESDA VLF-500



A very early warning smoke detector designed to protect small, business-critical environments of less than 500 m<sup>2</sup> (5,380 ft<sup>2</sup>)

Ordering Codes	Description
<b>VLF-500-00</b>	VESDA VLF.
<b>VLF-500-SIE</b>	VESDA VLF Siemens version
<b>Approvals:</b> UL, ULC, CSFM, FM, ActivFire, CE, CPR, LPCB, VdS, VNIPO, CFE, AFNOR, EN 54-20 (Classes A (30 holes), B (30 holes), C (30 holes)), UL268A (in-duct application), NY-MEA, CSFM, CCCF NF and SIL 2 as per IEC 61508 (2010) only for Rail Applications	
<b>Dimensions:</b> 256 x 183 x 92 mm (10 x 7 x 3 in)	
<b>Weight:</b> 2 kg (4.4 lbs)	
<b>Area Coverage:</b> 500 m <sup>2</sup> (5,380 ft <sup>2</sup> )	

## VESDA VLI



The VESDA VLI is an industry first early warning aspirating smoke detection system, designed to protect industrial applications up to 2,000 m<sup>2</sup> (21,520 ft<sup>2</sup>). The VLI detector combines a patented fail-safe Intelligent Filter with Clean Air Zero and clean-air barrier for optics protection complementing absolute detection and providing longer detection chamber life all enclosed in a robust IP66-rated enclosure.

Ordering Codes	Description
<b>VLI-880</b>	VESDA VLI Detector
<b>VLI-885</b>	VESDA VLI with VESDAnet
<b>Approvals:</b> UL, ULC, FM, ActivFire, CE, LPCB, NF, SIL 2 as per IEC 61508, EN 54-20 (Class A (24 holes), Class B (28 holes), Class C (60 holes))	
<b>Dimensions:</b> 426.5 x 316.5 x 180 mm (16.8 x 12.5 x 7.1 in)	
<b>Weight:</b> 6.035 kg (13.3 lbs)	
<b>Area Coverage:</b> 2,000 m <sup>2</sup> (21,520 ft <sup>2</sup> )	

## VESDA VFT-15



A multi-channel microbore air-sampling systems with an alarm sensitivity range from 0.001% to 20% obs/m (0.0003% to 6.10% obs/ft). VFT-15 provides pinpoint addressability to identify up to 15 protected areas via microbore air sampling tubes.

Ordering Codes	Description
<b>VFT-15</b>	24 VDC, Display/Programmer, TCP/IP, 15 inlets, Class A/B/C, 0.001 to 20% obs/m (0.0003 to 6.1% obs/ft)
<b>VFT-15-C</b>	24 VDC, Display/Programmer, TCP/IP, 15 inlets, Class C, 1 to 20% obs/m (0.3 to 6.1% obs/ft)
<b>01-V921-15</b>	VFT-15 Remote Display
<b>Approvals:</b> UL, ULC, CSFM, FM, AFNOR, CE, VdS, VNIPO, EN54-20 (Classes A, B, C)	
<b>Dimensions:</b> 490 x 355 x 200 mm (19.3 x 14.0 x 7.9 in.)	
<b>Weight:</b> 12 kg (26.5 lbs)	
<b>Area Coverage:</b> 1,500 m <sup>2</sup> (16,140 ft <sup>2</sup> ) across 15 sectors	

## VESDA Accessories List

### Remote Mount Configuration (VRT) - Single Box

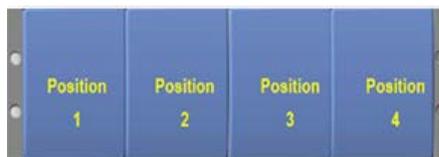
Product Image	Ordering Code	Description
	VRT-100	Programmer. Includes remote termination card with no relays.
	VRT-200	VESDA VLP with a remote termination card. Display. 7 Relays
	VRT-600	VESDA VLP with a remote termination card. Display. No Relays
	VRT-400	VESDA VLS Display with a remote termination card. 7 Relays
	VRT-700	VESDA VLS Display with a remote termination card. No Relays
	VRT-800	VESDA VLS Display with a remote termination card. 12 Relays
	VRT-W00	VESDA VLF Display with a remote termination card. No Relays
	VRT-V00	VESDA VLF Display with a remote termination card. 7 Relays
	VRT-J00	VESDA VLC Display with a remote termination card. 7 Relays
	VRT-K00	VESDA VLC Display with a remote termination card. No Relays
	VRT-T00	VESDA VLI Display with a remote termination card. No Relays
	VRT-Q00	VESDA VLI Display with a remote termination card. 7 Relays
	VRT-300	For remote connection to the VESDAnet.
	VRT-500	Includes blank plate with a remote mounting box. 7 Relays version for VLP, VLF, or VLC
	VRT-E00	Includes blank plate with a remote mounting box. 7 Relays version for VLS
	VRT-900	Includes blank plate with a remote mounting box. 12 Relays version for VLS
	VRT-S07	A remote termination card with new software supplied in a remote mounting box (VRT); it allows reporting of ANY alarm or fault condition that appears on a VESDAnet loop regardless of the initiating zone.
	VRT-A10	VESDA Analogue Output Module (AOM) An interface accessory/termination card that provides an output proportional to a digitally recorded smoke reading.
	VRT-J0000-MRN	Remote Display – VESDA VLC Marine

**Note:** All configurations include the remote mounting box, and are identifiable from a standard remote mounting box by the text on the blue cover. They can also be distinguished by the part number on the ratings label that appears on the bottom of the unit.

## Detector and Subrack Enclosures

Product Name and Image	Ordering Code	Country	Description
 <p data-bbox="263 490 430 512">Sub Rack Enclosure</p>	VRE-100	US	Glass door enclosure for 19" sub rack. Fits up to three racks, or two racks with VESDA Power Supply. Blank plates, the length of a subrack (19") are used for empty slots.
	VRE-001	US	Sub Rack Enclosure Single blanking plate
	VRE-002	US	Sub Rack Enclosure Double blanking plate

## Sub Rack Configurations (VSR)



The VESDA Sub Rack can be configured in thousands of different ways.

To configure, choose a module for each of the four positions shown below. The modules will be assembled in the configuration you specify, from left to right. Position 1 is the far left position, while Position 4 is the far right. The Sub Rack mounts on any standard 19" rack. Sub rack enclosures are also available.

Sub Rack configurations include the options for both "front" and "back" modules.

- Front module: is a display, programmer, or VESDAnet socket.
- Back modules: are remote termination cards with a variety of relay options.

To configure your Sub Rack, use the matrix that follows.

**The "Empty" Sub Rack: VSR - 0000** is a 19" Sub Rack without remote modules. Once modules are added, the part number will change as appropriate. VSR - 0000 has four positions for modules. Select a module for each position from the matrix below.

### Pre-configured examples:

	VSR - 2100: 19" Sub Rack with 1 Standard Display with 7 - relay remote termination card in position 1 and a Programmer in position 2. Blank plates are in position 3 and 4.
	VSR - 4423: 19" Sub Rack with: 2 Scanner Displays with 7 - relay remote termination cards in positions 1 and 2. A Standard Display with 7 - relay remote termination card occupies position 3 and a VESDAnet Socket is in position 4.

### VSR Spare Modules

1. All programmers and displays require remote termination cards.
2. Every relay termination card requires a display or relay processor board.
3. If you are using the sub rack for remote relays only, you must have a relay processor board in each position that has a relay.

Ordering Code	Description
VSR-1	Programmer with remote termination card - no relays
VSR-2	Standard display with 7 relay remote termination card
VSR-3	VESDAnet Socket
VSR-4	Scanner display with 7 relay remote termination card
VSR-5	7 relay remote termination card and relay processor
VSR-6	Standard display with remote termination card - no relays
VSR-7	Scanner display with remote termination card - no relays
VSR-8	Scanner display with 12 relay remote termination card
VSR-9	12 relay remote termination card and relay processor
VSR-A	Programmer sharing adjacent termination card
VSR-J	VLC VN Display with 7 relays
VSR-K	VLC VN display with no relays
VSR-Q	VLI display with 7 relays
VSR-T	VLI display with no relays
VSR-V	VLF display with 7 relay remote termination card
VSR-W	VLF display without relays

## Sub Racks for VFT-15

Product Name and Image	Ordering Code	Description
 <p>Mini RDU RS485</p>	01-E922-01	19" rack mount for use with VFT-15. Unit provides a compact size user interface display of the associated VFT-15 detector.

## VESDAnet and Relay Cards

Product Name and Image	Ordering Code	Description
 <p>VESDAnet Network Interface Card</p>	VIC-010	A simple interface card for the range of VESDA VLF smoke detectors. The VN Card provides seamless VESDAnet communication from the detector to other VESDAnet devices, including configuration and monitoring tools.
 <p>VESDAnet multi-function Control Card</p>	VIC-020	Provides additional 2 relays and 1 General Purpose Output (GPI). For VESDA VLF
 <p>VESDAnet Network Interface Card with MPO</p>	VIC-030	VESDA multi-function Control Card with Powered Output (MPO). Provides all the features of the VIC-020 with an additional Relay which can be programmed as a Monitored Powered Output. For VESDA VLF

## VESDA VFT-15 Relay Cards

Product Name and Image	Ordering Code	Description
 <p>Relay Module</p>	01-E606-01	4-Channel Relay Module
 <p>Re-transmission Module</p>	01-E624-00	8-Channel 4-20 mA Re-Transmission Module FT Series for use in VFT-15.
 <p>Interface Card</p>	01-E627-00	The VFT-15 VESDAnet Interface Card (VN Card) is a simple interface for the VESDA VFT-15 detector. It provides seamless VESDAnet communication from the detector to other VESDAnet devices including the Xtralis VSC configuration tool and Xtralis VSM4 monitoring tool.

## Programming Options



The PC - Link High Level Interface (PC - Link HLI) connects a PC and VESDA system. Each PC - Link HLI includes two cables (It does not include a PC):

- RS232 from HLI to PC Com port
- RS485 from HLI to VESDAnet Socket

Product Image	Ordering Code	Description
	VHH-100	Hand held Programmer including Lead for temporary connection of a programmer to a network via a VESDAnet socket.
	VHX-0200	Sliding Windows RS232 Interface For Xtralis VSM4 and Xtralis VSC Software
	VHX-0210	Sliding Windows With Dial In/Dial Out functionality
	VHX-0300	Open Protocol Peer to Peer High level Interface. RS232 Interface for connection to a BMS or Fire Panel
	VHX-0310	Open Protocol Master - Slave High level Interface. RS232
	VHX-0320	VESDA Access HLI Standard
	VHX-0420	VESDA Modbus Type 3 HLI Standard
	VHX-1200	Wall-mounted HLI. Links VESDAnet with Xtralis VSM4 and Xtralis VSC. Includes a built-in VESDAnet port and VESDAnet socket card.
	VHX-1300	Wall-mounted Open Protocol Peer-to-Peer
	VHX-1310	Wall-mounted Open Protocol Master-Slave
	VHX-1320	VESDA Access HLI Metal Box Wall-mounted
	VHX-1420	VESDA Modbus Type 3 HLI Metal Box Wall-mounted

## Spare Parts/Modules

Part Number	Description
VSP-000	Blank plate, with VESDA logo
VSP-001	Programmer Module
VSP-002	VLP Display Module
VSP-003	VESDAnet Socket kit
VSP-004	VESDA VLS Display Module
VSP-005	Filter Cartridge
VSP-006	VESDA VLP Detector Chassis Assembly, includes Manifold
VSP-007	Remote Termination Card No Relays (RTC0)
VSP-008	Remote Termination Card 7 Relays (RCT7)
VSP-009	VESDA VLS Chassis Assembly, includes Scanning Manifold
VSP-011	Recess Mounting Kit for VESDA VLP or VESDA VLS Detector
VSP-012	Recess Mounting Kit for remote single boxes
VSP-013	Detector Cover Assembly with EMC Shields
VSP-014	7 Relay Head Termination Card (HTC7) - for VESDA VLP
VSP-015	Aspirator for VESDA VLP and VESDA VLS
VSP-016	12 Relay Head Termination Card (HTC12)
VSP-018	Filter Switch
VSP-019	Filter Cover
VSP-020	VLP and VLS Screw Covers - Pack of 2
VSP-021	Metric to Imperial Pipe Adapters, Kit of 4
VSP-022	Mounting box detector
VSP-023	VLC VN front cover
VSP-024	VLC RO front cover
VSP-025	Filter Cartridge - Pack of 20
VSP-028	VESDA VLP/VESDA VLS Mounting Bracket
VSP-030	VESDA VLI Intelligent Filter Spare Part
VSP-031	VESDA VLI Secondary Foam Filter Spare Part
VSP-032	VESDA VLI Aspirator Spare Part
VSP-033	VESDA VLI Chamber Assembly Spare Part
VSP-034	VESDA VLI VESDAnet Card Spare Part
VSP-035	VESDA VLI Remote Display Module
VSP-036	VESDA VLI Ultrasonic Flow Manifold Spare
VSP-100	Blank Plate with FOK LEDs and Logo
VSP-100US-PCB	Power Supply Circuit Board Only
VSP-TRAN-120	Transformer Only
VSP-102	Non Scanner relay processor module (DRP). Required if remote relays are used with no display.
VSP-103	Scanner relay processor Module (DRP). Required if remote relays are used with no display
VSP-200	Blank Plate, EMC painted, without Logo
VSP-208	12 Relay Remote Termination Card (RCT12) - for VESDA VLS
VSP-501	Aspirator, VESDA VLC
VSP-502	Compact (VN) Remote Display Module

Part Number	Description
VSP-509	Computer lead for use with VESDA VLC Relay Only (RO) & VLF Version
VSP-510	Compact (RO) Termination Card (CTC-RO) - for VESDA VLC
VSP-511	VESDAnet RS-485 15-way cable
VSP-515	Compact (VN) Termination Card (CTC-VN) - for VESDA VLC
VSP-540	Exhaust Deflector, Black, for use with VESDA VLP, VESDA VLS and VESDA VLC
VSP-715	VLF Aspirator
VSP-722	VESDA VLF-250 Aspirator Assembly (1 fan)
VSP-725	VESDA PSU Filter
VSP Exhaust	Exhaust Deflector, Grey, for use with VESDA VLF
VSP-850-G	Xtralis In-Line Filter - Grey
VSP-850-R	Xtralis In-Line Filter - Red
VSP-850-M	Xtralis In-Line Filter - Metal
VSP-855-4	Xtralis In-Line Filter Elements - pack of 4
VSP-855-20	Xtralis In-Line Filter Elements - pack of 20
02-FL01-01	Sintered EOL Filter for use with microbore tubing on VFT-15
E700-FIL-ASSY	External filter assembly
ISP-102-01	Gaswitch Unit (IFT-15, VFT-15)
ISP-106-01	Pump for VFT-15
ISP-110-01	Replacement cover VFT-15
ISP-113-01	Detector chamber for VFT-15
ISP-127	VFT-15 Display Replacement

# Batteries and Power Supplies

## Batteries

Product Image	Ordering Code	Country	Description
	VBT-012	US	Battery, Sealed, Lead Acid, 12VDC, 12 Amp/Hour (2 Required per Detector)

## Power Supplies - US

	VPS-100CN-120
	
Nominal AC Supply Voltage	120 VAC/1.4A
Output Voltage	27.6 V nominal
Load	Total output current = 6 A
Dimensions (H x W x D)	Approx. Chassis: 16.5 x 11.8 x 4.5"; Cover 16.9 x 12.2 x 4.6"
Weight	13.40 lbs

	VPS-100US-120	VPS-100US-220	VBC-001 *
			
Nominal AC Supply Voltage	120 VAC	230 VAC	-
Output Voltage	27.6 VDC (Nominal)		-
Load	1.5 Amps (max.)		-
Dimensions (H x W x D)	13.9 x 9 x 4.5 in.	13.9 x 9. x 4.5 in.	13.9 x 9 x 4.5 in.
Weight	10 lbs. without batteries	10 lbs. without batteries	6 lbs. without batteries

**Note:** \* VBC-001 is a battery cabinet that takes up to 4 batteries, 12 Vdc, 12 Amp/h.

	VPS-300US-120 *	VPS-300US-220 *
		
Nominal AC Supply Voltage	120 VAC	220 VAC
Output Current	1.5 Amps (max.)	
Load	0.5 / 1.0 amps (1 amp not EN54-4)	0.5 / 1.0 amps

**Note:** \* Each VPS-300US-120 or VPS-300US-220 power supply is a VPS-100US-XXX power supply plus the VBC-001 battery cabinet.

	VPS-400US-48
	
Nominal DC Supply Voltage	48 VDC
Output Voltage	24 VDC
Load	2.5 amp
Dimensions (H x W x D)	350 x 225 x 125 mm (13.8 x 8.9 x 4.9 in.)
Weight	3.6 Kg (8 lbs.)

## VESDA Demo Kits

Ordering Code	Description
VKT-002-US	VESDA VLP VKT-002 Sales Demo Kit, includes VLP-012
VKT-004-US	VESDA VLC VKT-004 Sales Demo Kit, includes VLC-505
VKT-020-US	VESDA VLF VKT-020 Sales Demo Kit, includes VLF-250
VKT-050-US	VESDA VLF VKT-050 Sales Demo Kit, includes VLF-500

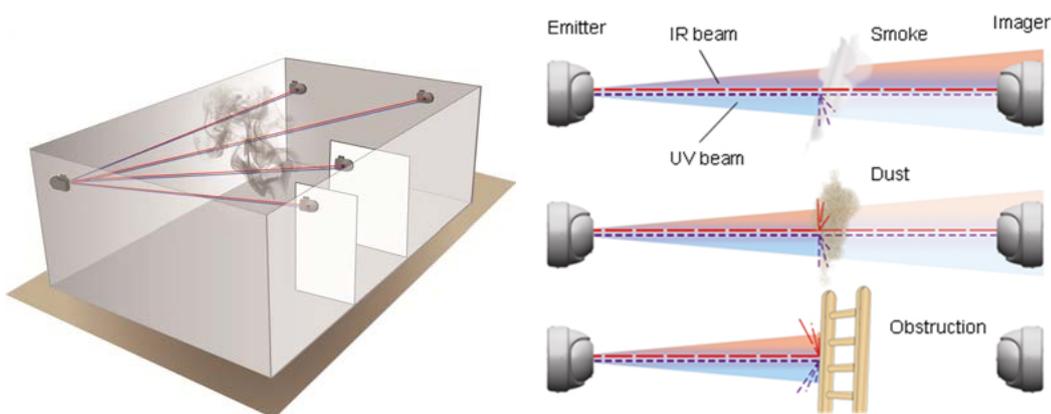
# OSID Open-area Smoke Imaging Detection



## Open-area Smoke Detection Reinvented

OSID stands for Open-area Smoke Imaging Detector. OSID combines dual frequency (IR and UV) beams with a CMOS Imager detector. OSID operates in both pitch dark as well as bright sunlight. With this new award winning technology also comes; high tolerance to vibration and structural movement as well as good resistance to dust, fogging, steam, reflections and object intrusion. On-board log memory for diagnostic purposes completes the picture. One Imager (receiver) can have up to seven emitters and provides easy 3D coverage for atria, domes etc. Fast and easy installation is an extra perk.

## True spatial detection



## Applications

- Shopping Malls
- Long Corridors
- Airport Terminals and Train Stations
- Heritage Buildings
- Suspended Ceilings
- Challenging Logistics
- Indoor Stadiums and Arenas
- Dirty Environments
- Hotel and Office-tower Atriums
- Churches and Cathedrals
- Exhibition and Convention Centers
- Industrial and Manufacturing Facilities

## OSID Products List

OSID	
	<p>Open-area Smoke Imaging Detection (OSID) by Xtralis is a new innovation in projected beam smoke detection technology. By using advanced dual wavelength projected beams and optical imaging technology for early warning smoke detection, OSID provides a low-cost, reliable and easy-to-install solution that overcomes typical beam detection issues such as false alarm incidents and alignment difficulties.</p>
Ordering Codes	Description
<b>OSI-10</b>	Imager - 7° coverage
<b>OSI-90</b>	Imager - 80° coverage
<b>OSE-SP-01</b>	Emitter - Alkaline Battery
<b>OSE-SPW</b>	Emitter - Standard Power, Wired
<b>OSE-HPW</b>	Emitter - High Power, Wired
<b>Approvals:</b> UL, ULC, CSFM, FM, AFNOR, CE - EMC and CPD, VdS, ActivFire, BOSEC	
<b>Dimensions:</b> 208 x 136 x 96 mm (8.19 x 5.35 x 3.78 in.)	
<b>Weight:</b> Imager: 610 g., Emitter (battery powered): 1.2 kg, Emitter (wired): 535 g	
<b>Area Coverage:</b> 2,000 m <sup>2</sup> (21,520 ft <sup>2</sup> )	

## OSID Accessories List

Product Name and Image	Ordering Code	Description
	OSID-INST	OSID Installation Kit
	OSID-EHE	Emitter environmental housing IP66
	OSID-EHI	Imager environmental housing IP66
	OSE-ACF	Anti-condensation film for Emitters
	OSEH-ACF	Anti-condensation film for OSID-EHE and OSID-EHI environmental housings
	OSP-001	FTDI Cable 1.5m
	OSP-002	Laser Alignment tool
	OSID-WG	Wire Guard for Imager and Emitter
	OSE-RBA	Spare alkaline battery pack for Emitter units
	OSE-RBL	Replacement Lithium Ion Kit
	OSI-LS	Light shield for Imagers
	OSP-003	Acrylic test filter - 10 pack
	OSP-003-200	Acrylic test filter - bulk pack 200 units

Product Name and Image	Ordering Code	Description
	RTS151KEY	Imager Reset Station Flush Mount
	RTS151KIT	Imager Reset Station Surface Mount

## OSID Demo Kit

Product Name and Image	Ordering Code	Description
	VKT-301	OSID Demo kit consisting of 2 X OSE-SPW (fitted with alkaline batteries), 1 X OSI-90, 1 X OSID-INST, fitted in a carry case with mounting plates.

## Software

Software	Description
 OSID Diagnostic Tool	<p>OSID Diagnostic Tool is an industry first and unique to the beam market used to retrieve events and data stored in the Imager. It provides a wealth of information surrounding an alarm, fault or any significant change. Data can be analysed and plotted revealing; IR/UV attenuation, beam positioning, temperature, reference signals, contamination etc.</p> <p><b>Ordering Info:</b> OSID Diagnostic Tool is available for download from <a href="http://www.xtralis.com">www.xtralis.com</a>.</p>
 OSID Selection Assistant	<p>OSID Selection Assistant. Excel based calculation tool to find the best suited OSID solution for a given area. Also compares OSID the solution to any third party beam, including labor and wiring.</p> <p><b>Ordering Info:</b> Available for download from <a href="http://www.xtralis.com">www.xtralis.com</a></p>

# VESDA ECO Aspirating Smoke Detection Combined with Gas Monitoring



## ASD with Gas Detection and Environmental Monitoring

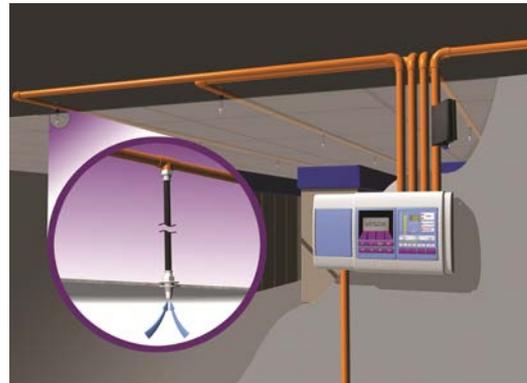
As the world's leading manufacturer of aspirating smoke detection (ASD) solutions, Xtralis is pleased to introduce ECO, the industry's first system to combine ASD with gas detection and environmental monitoring. VESDA ECO:

- Leverages existing VESDA ASD pipe networks to cost effectively detect both smoke and gas in addition to providing environmental monitoring
- Provides detection for multiple gases through simple expansion without major construction or retrofitting
- Suitable for harsh environments
- Provides non-intrusive detection for aesthetics or to prevent vandalism
- Easily integrates with FACP/ PLCs/ HVAC/ BMS

## How ECO Works

ECO uses the existing VESDA air-sampling pipe network to actively monitor for gas leaks and continuously ensure air quality in occupied areas.

ECO reliably detects unseen hazards by conditioning or filtering the air to remove moisture, dirt and other particulates that can cause traditional point gas detection systems to false alarm or become contaminated. The VESDA ECO detector is configured using Xtralis VSC configuration software. The detector also can be monitored using Xtralis VSM4 monitoring software. Both Xtralis VSC and Xtralis VSM4 can be used to download data from the on-board memory card for data analysis and trending of historical data.



## Applications

- Battery rooms for the detection of hydrogen
- Boiler rooms for the detection of natural gas or LPG
- Control centers in refineries for detection of methane or hydrogen sulfide ingress
- Road tunnels for the detection of carbon monoxide and nitrogen dioxide
- Building utility rooms for the detection of natural gas or LPG
- Elevator shafts for the detection of methane or carbon monoxide
- Warehouse roof spaces for the detection of natural gas from space heaters
- Laboratories for the detection of various flammable and toxic gases
- Enclosed vehicle parking/loading docks for the detection of carbon monoxide and nitrogen dioxide

## ECO Products List

VESDA ECO - Detector	
	<p>VESDA ECO (Ex) provides early warning of toxic, oxygen and flammable gas hazards to protect personnel and property whilst ensuring business continuity. VESDA ECO (Ex) is approved for use within Class I Division 2 classified hazardous locations. It must be used with a similarly approved VESDA ASD and installed within the Class I Div 2 area.</p>
Ordering Codes	Description (Single Gas)
<i>ECO-D-B-11</i>	Hydrogen (H2) 0-100% LEL
<i>ECO-D-B-12</i>	Methane (CH4) 0-100% LEL
<i>ECO-D-B-13</i>	Propane (C3H3) 0-100% LEL
<i>ECO-D-B-14</i>	Hydrogen (H2) 0-2000 PPM
<i>ECO-D-B-15</i>	Petrol/Gasoline Vapor 0-100% LEL
<i>ECO-D-B-16</i>	Pentane (C5H12) 0-100% LEL
<i>ECO-D-B-20</i>	Alcohol Vapor 0-100% LEL
<i>ECO-D-B-31</i>	Oxygen (O2) 0-25% VOL
<i>ECO-D-B-32</i>	Oxygen (O2) 0-25% VOL - deficiency and enrichment alarm
<i>ECO-D-B-41</i>	Carbon Monoxide (CO) 0-500 PPM
<i>ECO-D-B-43</i>	Hydrogen Sulfide (H2S) 0-100 PPM
<i>ECO-D-B-44</i>	Sulfur Dioxide (SO2) 0-10 PPM
<i>ECO-D-B-45</i>	Nitrogen Dioxide (NO2) 0-10 PPM
<i>ECO-D-B-49</i>	Carbon Dioxide (CO2) 0-5% VOL
Ordering Codes	Description (Dual Gas)
<i>ECO-D-B-12-31</i>	Methane (CH4) 0-100% LEL + Oxygen (O2) 0-25% VOL
<i>ECO-D-B-12-41</i>	Methane (CH4) 0-100% LEL + Carbon Monoxide (C) 0-500 PPM
<i>ECO-D-B-41-45</i>	Carbon Monoxide (CO) 0-500 PPM + Nitrogen Dioxide (NO2) 0-10 PPM
<i>ECO-D-B-13-31</i>	Propane (C3H3) 0-100% LEL + Oxygen (O2) 0-25% VOL
<i>ECO-D-B-13-41</i>	Oxygen (O2) 0-25% VOL + Carbon Monoxide (CO) 0-500 PPM
<i>ECO-D-B-41-43</i>	Carbon Monoxide (CO) 0-500 PPM + Hydrogen Sulfide (H2S) 0-100 PPM
<i>ECO-D-B-41-45</i>	Carbon Monoxide (CO) 0-500 PPM + Nitrogen Dioxide (NO2) 0-10 PPM

<b>Ordering Codes</b>	<b>Description (Single Gas, Class 1 Division 2)</b>
<b>ECO-D-B-11-Ex</b>	Hydrogen (H2) 0-100% LEL
<b>ECO-D-B-12-Ex</b>	Methane (CH4) 0-100% LEL
<b>ECO-D-B-13-Ex</b>	Propane (CH4) 0-100% LEL
<b>ECO-D-B-14-Ex</b>	Hydrogen (H2) 0-2000 PPM
<b>ECO-D-B-15-Ex</b>	Petrol/Gasoline Vapor 0-100% LEL
<b>ECO-D-B-16-Ex</b>	Pentane (C5H12) 0-100% LEL
<b>ECO-D-B-20-Ex</b>	Alcohol Vapor 0-100% LEL
<b>ECO-D-B-31-Ex</b>	Oxygen (O2) 0-25% VOL - Deficiency only alarm
<b>ECO-D-B-32-Ex</b>	Oxygen (O2) 0-25% VOL - Deficiency and enrichment alarm
<b>ECO-D-B-41-Ex</b>	Carbon Monoxide (CO) 0-500 PPM
<b>ECO-D-B-43-Ex</b>	Hydrogen Sulfide (H2S) 0-100 PPM
<b>ECO-D-B-44-Ex</b>	Sulfur Dioxide (SO2) 0-10 PPM
<b>ECO-D-B-45-Ex</b>	Nitrogen Dioxide (NO2) 0-10 PPM
<b>ECO-D-B-49-Ex</b>	Carbon Dioxide (CO2) 0-5% VOL
<b>Ordering Codes</b>	<b>Description (Dual Gas, Class 1 Division 2)</b>
<b>ECO-D-B-12-43-Ex</b>	Methane (CH4) 0-100% LEL + Hydrogen Sulfide (H2S) 0-100 PPM
<b>ECO-D-B-13-31-Ex</b>	Propane (C3H8) 0-100% LEL + Oxygen 0-25% VOL

**Approvals:**

- **CE: Electrical Safety**

- Conforms to ANSI/UL Std 61010-1
- Certified to CAN/CSA Std C22.2 No. 61010-1
- EN 61010-1

- **EMC**

- FCC 47CFR Part 15B class B
- ICES 003
- EN 50270

- **Others**

- LCPB, VdS, AFNOR compatible for use with Xtralis EN54-20 approved ASD
- LOM approved to UNE 23300 (CO & CO+NO2)
- AQISQ – CMC Pattern Approval
- CCCF – CFE, GB:15322.1
- VNIPO
- Hazardous area, ATEX, ANSI/ISA, CSA (pending)

- **SIL Rating**

- SIL 2 as per IEC 61508 (combustible gas and CO<sub>2</sub> versions)
- SIL 1 as per IEC 61508 (toxic gas and oxygen versions)

**Dimensions:** 34 x 125 x 110 mm (1.3 x 4.9 x 4.4 in.)

**Weight:** 250 g (0.6 pounds)

## VESDA ECO Ex Gas Detector



VESDA ECO Ex provides early warning of toxic, oxygen and flammable gas hazards to protect personnel and property whilst ensuring business continuity.

VESDA ECO Ex is approved for use within Class I Division 2 classified hazardous locations. It must be used with a similarly approved VESDA ASD and installed within the Class I Div 2 area.

Ordering Codes	Description
<b>ECO-D-B-AA-Ex</b>	Single Gas Unit *
<b>ECO-B-AA-BB-Ex</b>	Dual Gas Unit **

### Approvals:

- **Electrical Safety**

- Conforms to ANSI/UL Std 61010-1
- Certified to CAN/CSA Std C22.2 No. 61010-1
- EN 61010-1

- **EMC**

- FCC 47CFR Part 15B class B
- ICES 003
- EN 50270

- **Hazardous Location**

- ETL approved to ISA12.12.01, CSA C22.2 No. 213
- Class I Div 2 Groups ABC&D T4 -4°F ≤ Tamb ≤ +131°F

- **SIL Rating**

- SIL 2 as per IEC 61508 (combustible gas and CO<sub>2</sub> versions)
- SIL 1 as per IEC 61508 (toxic gas and oxygen versions)

**Dimensions:** 155 x 135 x 74 mm (6.1 x 5.3 x 2.9 in.)

**Weight:** 1 kg (2.2 lb) detector and enclosure combined

### Notes:

\* Replace AA with the relevant gas type number.

\*\* Replace AA and BB with the two number combination (12 – 43 Methane and Hydrogen Sulphide).

## VESDA Accessories List

### Replacement Cartridges (Single Gas)

Ordering Code	Description
ECO-SC-11	Hydrogen (H2) 0-100% LEL
ECO-SC-12	Methane (CH4) 0-100% LEL
ECO-SC-13	Propane (C3H8) 0-100% LEL
ECO-SC-14	Hydrogen (H2) 0-2000 ppm
ECO-SC-15	Petrol/Gasoline Vapor 0-100% LEL
ECO-SC-16	Pentane (C5H12) 1-100% LEL
ECO-SC-20	Alcohol Vapor 0-100% LEL
ECO-SC-31	Oxygen (O2) 0-25% VOL
ECO-SC-32	Oxygen (O2) 0-25% VOL - Deficiency and enrichment alarm
ECO-SC-41	Carbon Monoxide (CO) 0-500 PPM
ECO-SC-43	Hydrogen Sulfide (H2S) 0-100 PPM
ECO-SC-44	Sulfur Dioxide (SO2) 0-10 PPM
ECO-SC-45	Nitrogen Dioxide (NO2) 0-10 PPM
ECO-SC-49	Carbon Dioxide (CO2) 0-5% VOL

### Replacement Cartridges (Dual Gas)

Ordering Code	Description
ECO-SC-11-31	Hydrogen (H2) 0-100% LEL + Oxygen (O2) 0-25% VOL
ECO-SC-12-31	Methane (CH4) 0-100% LEL + Oxygen (O2) 0-25% VOL
ECO-SC-12-41	Methane (CH4) 0-100% LEL + Carbon Monoxide (CO) 0-500 PPM
ECO-SC-12-43	Methane (CH4) 0-100% LEL + Hydrogen Sulfide (H2S) 0-100 PPM
ECO-SC-13-31	Propane (C3H8) 0-100% LEL + Oxygen (O2) 0-25% VOL
ECO-SC-31-41	Oxygen (O2) 0-25% VOL + Carbon Monoxide (CO) 0-500 PPM
ECO-SC-41-43	Carbon Monoxide (CO) 0-500 PPM + Hydrogen Sulfide (H2S) 0-100 PPM
ECO-SC-41-45	Carbon Monoxide (CO) 0-500 PPM + Nitrogen Dioxide (NO2) 0-10 PPM

### Replacement Cartridges (Class 1, Division 2)

Ordering Code	Description
ECO-SC-11-Ex	Hydrogen (H2) 0-100% LEL
ECO-SC-12-Ex	Methane (CH4) 0-100% LEL
ECO-SC-13-Ex	Propane (C3H8) 0-100% LEL
ECO-SC-14-Ex	Hydrogen (H2) 0-2000 PPM
ECO-SC-15-Ex	Petrol/Gasoline Vapor 0-100% LEL
ECO-SC-16-Ex	Pentane (C5H12) 0-100% LEL
ECO-SC-20-Ex	Alcohol Vapor 0-100% LEL
ECO-SC-31-Ex	Oxygen (O2) 0-25% VOL - deficiency alarm only
ECO-SC-32-Ex	Oxygen (O2) 0-25% VOL - deficiency and enrichment alarm
ECO-SC-41-Ex	Carbon Monoxide (CO) 0-500 PPM
ECO-SC-43-Ex	Hydrogen Sulfide (H2S) 0-100 PPM
ECO-SC-44-Ex	Sulfur Dioxide (SO2) 0-10 PPM

Ordering Code	Description
ECO-SC-45-Ex	Nitrogen Dioxide (NO2) 0-10 PPM
ECO-SC-49-Ex	Carbon Dioxide (CO2) 0-5% VOL

### Replacement Cartridges (Dual Gas, Class 1 Division 2)

Ordering Code	Description
ECO-SC-12-43-Ex	Methane (CH4) 0-100% LEL + Hydrogen Sulfide (H2S) 0-100 PPM
ECO-SC-13-31-Ex	Propane (C3H8) 0-100% LEL + Oxygen (O2) 0-25% VOL

### Replacement Parts and Adaptors

Product Image	Ordering Code	Description
	ECO-D-S-01	ECO detector with no sensor cartridge
	LF41333	Filter Cartridge Assembly
	ECO-FT15	ECO Adapters for VFT-15 and IFT-15, includes pipe clips
	LF41291	USB access port Rubber Bung
	LF41313	USB Connection Lead
	LF41301	Sensor Cartridge O-Ring
	LF41302	Filter Cartridge O-Ring
	LF41312	MicroSD Card

### ECO Demonstration Equipment

Product Image	Ordering Code	Description
	VKT-601	<p>VESDA ECO Demonstration Kit (excludes test gas)</p> <ul style="list-style-type: none"> <li>• 1 x VESDA VLF-250</li> <li>• 1 x VESDA ECO (O2 and CO)</li> <li>• Sensor Part Number (ECO-D-B-31-41)</li> <li>• 110/220V power supply</li> <li>• Strobe and Fan with LED indicator</li> <li>• Pre-assembled cabling (including USB cable)</li> <li>• Sampling pipes (including elbow joint)</li> <li>• Xtralis VSC Software in CD</li> <li>• Carrying Case</li> </ul>

# Xtralis



## How it works

The XAS systems actively draw air from the protected area through sampling holes in a pipe network. Sampled air is then filtered before being analyzed by conventional or analog point detectors incorporated in the systems. The XAS system is available with one inlet pipe (XAS-1) or two inlet pipes (XAS-2), and can be used with one or two detectors per system. A number of different points from a range of leading technology providers may be used.

The systems utilize a high performance aspirator and programmable flow monitoring circuitry. Air flow level is displayed on a ten element bar graph that can be adjusted for high and low flow thresholds, and flow failure is reported as a device fault via relays to the monitoring system.

## Applications

- Where duct detectors are difficult to maintain and service;
- Where an aerial lift device must be used to service duct detectors; and
- Where unobtrusive smoke detection is required

## Why use Xtralis Smoke Detection Solutions:

- Tamper-proof sampling points which deter vandalism
- Sampling pipe can be located behind vents, invisible to inmates
- The ability to locate sampling holes where smoke will travel and to position the detector in a location that has easy access for maintenance
- Remote monitoring and configuration of detectors improves control and cost of ownership in unmanned or secured areas

## Xtralis Products List

### Xtralis XAS



The Xtralis XAS Air-sampling Smoke Detection system provides a flexible detection solution to meet unique needs of challenging applications found in typical commercial and industrial sites. The XAS solution is well suited to installations where access to the monitored areas is restricted and provides unobtrusive detection. The ability to mount the device outside the protected area makes it ideal for use in applications such as correctional facilities, transformer vaults, cable tunnels, elevator machine rooms and HVAC ducts.

Ordering Codes	Description
<b>XAS-1-US</b>	Air-sampling Smoke Detector with 1 inlet with metal enclosure for the US
<b>XAS-2-US</b>	Air-sampling Smoke Detector with 2 inlets with metal enclosure for the US
<b>Approvals:</b> UL-268, UL-268A, ULC-529	
<b>Dimensions:</b> 259 x 321 x 166 mm (10.2 x 12.6 x 6.5 in.)	
<b>Weight:</b> 1.2 Kg (2.65 lbs)	
<b>Area Coverage:</b> 2,000 m <sup>2</sup> (21,520 ft <sup>2</sup> )	

**Note:** Point detectors are ordered from their manufacturer/supplier; while baffles are ordered separately from Xtralis depending on the point detector type.

## Xtralis Accessories List

### XAS Flex Tubing

Ordering Code	Description
LF-42249	50" flexible dual core tubing, provides two 25 foot long 1/2" I.D. flexible tubes for use with XAS units in duct sampling arrangements.
LF-42250	25" flexible dual core tubing, provides two 25 foot long 1/2" I.D. flexible tubes for use with XAS units in duct sampling arrangements.

### XAS Sample & Exhaust Tubes - Single Zone Kits

Ordering Code	Description
LF-42285	18" - 2 hole sample and exhaust tube kit
LF-42286	36" - 3 hole sample and exhaust tube kit
LF-42287	60" - 4 hole sample and exhaust tube kit

### XAS Sample & Exhaust Tubes - Dual Zone Kits

Ordering Code	Description
LF-42288	18" - 2 hole sample and exhaust tube kit
LF-42289	36" - 3 hole sample and exhaust tube kit
LF-42290	60" - 4 hole sample and exhaust tube kit

### XAS Duct Kits

Ordering Code	Description
LF-42241	Single zone sampling kit, includes two tube mounting plates, compression fittings, adaptors, elbows and reducers for use with XAS-1-US inlet and exhaust tubes and flexible tubing.
LF-42243	Dual zone sampling kit, includes three tube mounting plates, compression fittings, adaptors, elbows and reducers for use with XAS-2-US inlet and exhaust tubes and flexible tubing.

### XAS Miscellaneous

Ordering Code	Description
ISP-001	Filter element pack of 10 (Coarse) 20 ppi black
20-LA0015-03	Corner Stud Key
20-LA0016-01	Corner studs
80-0020-0	Filter element (Coarse) FRS20
27-1002-00	Rubber Grommet
34-1251-T3	1.25 A, Anti-surge fuse
LF-42265	Duct sampling probe/exhaust pipe end cap
29624	Pipe label

## Baffles

Ordering Code	Description
06-0000	Blanking baffle for replacement purposes. XAS-1-US unit is supplied with one blanking baffle in the right side mounting location (pack of 10)
06-AP10	Baffle for Apollo detector Discovery, S65 & XP95, GE Security detector DP 652, DP 951, DP 991 (pack of 10)
06-HK10	Baffle for Hochiki detector SLR-E3 & ALG-E (pack of 10)
06-HK40	Baffle for Hochiki detector SLV-24V (pack of 10)
06-HN10	Baffle for the following Honeywell detectors: <ul style="list-style-type: none"> <li>• System Sensor 2251B or 2251BA</li> <li>• Notifier - Fire Warden NP-100 or NP-100A</li> <li>• Gamewell/FCI ASD-PL2F or ASD-PL2FA</li> <li>• Silent Knight IDP-PHOTO or SK-PHOTO</li> <li>• Firelite SD355 or SD355A</li> <li>• Honeywell TC806B1076 or TC806B1076CDN</li> <li>• JCI 2951J or 2951JA</li> </ul>
06-SE10	Baffle for use with Siemens HFP-11 sensor (pack of 10)
06-SE20	Baffle for Siemens Point Detectors FDO421 and OP921 (pack of 10)
06-SE30	Baffle for Siemens Point Detectors FDOOT441, OOH941, FDOOTC441 and OOHC941 (pack of 10)
06-NF10	Baffle for Notifier FPS-851, FSA-851A and Johnson Controls A2951JA detectors (pack of 10)

# Software

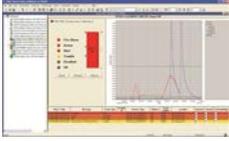
## iVESDA

Software Image	Description
	<p>iVESDA is a downloadable application that can be installed on Android and iOS handheld devices and used to monitor and maintain VESDA-E systems with unprecedented ease. It is also compatible with existing VESDA detectors residing on the same VESDAnet as the VESDA-E devices.</p> <p>iVESDA provides detailed alarm, fault and other status information such as smoke trends, airflow, filter life, as well as viewing of important configuration parameters such as pipes in use and smoke alarm thresholds.</p> <p><b>Ordering Info:</b> Downloadable from GooglePlay store and Apple store.</p>
<p><b>Supported Products</b></p>	<ul style="list-style-type: none"> <li>• VESDA-E VEU</li> <li>• VESDA-E VEA</li> <li>• VESDA-E VEP</li> <li>• VESDA VLP</li> <li>• VESDA VLS</li> <li>• VESDA VLC</li> <li>• VESDA VLF</li> <li>• VESDA VLI</li> <li>• Analytics (WireTrace, DieselTrace and DustTrace) support for VESDA-E VEU and VESDA-E VEP</li> </ul>

## ASPIRE

Software Image	Description
	<p>ASPIRE is a Windows®-based application that aids the specification and design of pipe networks for VESDA and ICAM air sampling smoke detectors. It provides the designer with tools to speed the design process and ensure optimum network performance and installation quality.</p> <p><b>Ordering Info:</b> ASPIRE is available for download from <a href="http://www.xtralis.com">www.xtralis.com</a>.</p>
<p><b>Supported Products</b></p>	<p><b>VESDA-E</b></p> <ul style="list-style-type: none"> <li>• VESDA-E VEU</li> <li>• VESDA-E VEP</li> </ul> <p><b>VESDA</b></p> <ul style="list-style-type: none"> <li>• VESDA VLP</li> <li>• VESDA VLF-250</li> <li>• VESDA VLF-500</li> <li>• VESDA VLI</li> <li>• VESDA VLP</li> <li>• VESDA VLS</li> </ul>

# Xtralis VSC

Software Image	Description	
	<p>Xtralis VSC configures, commissions and maintains a range of Xtralis fire and gas detection systems including VESDA and ICAM smoke and gas detectors and ancillary devices. Xtralis VSC can configure a single Xtralis device or your entire Xtralis system.</p> <p><b>Ordering Code:</b> VSW-100</p>	
<p><b>Supported Products</b></p>	<p><b>ECO</b></p> <ul style="list-style-type: none"> <li>• ECO Detector</li> <li>• Sensor</li> <li>• Relay</li> <li>• Analog Output</li> <li>• Co ppm Sensor</li> <li>• NH3 ppm Sensor</li> <li>• O2 % . v/v Sensor</li> <li>• H2 % . LFL Sensor</li> <li>• H2S ppm Sensor</li> <li>• So2 ppm Sensor</li> <li>• No2 ppm Sensor</li> <li>• CH4 % . LFL Sensor</li> <li>• C3H8 % . LFL Sensor</li> <li>• H2 ppm Sensor</li> <li>• Cl2 ppm Sensor</li> <li>• Co2 % . v/v Sensor</li> <li>• C5H12 ‘% . LFL Sensor</li> <li>• O2 Dep/Enr % . v/v Sensor</li> <li>• Alcoh ‘% . LFL Sensor</li> <li>• Pet Vap ‘% . LFL Sensor</li> <li>• NH3 % . LFL Sensor</li> </ul> <p><b>MODBUS</b></p> <ul style="list-style-type: none"> <li>• VFT-15</li> </ul> <p><b>VESDAlink</b></p> <ul style="list-style-type: none"> <li>• VESDA VLC LP Phase 1</li> <li>• VESDA VLC Ro Phase 1</li> <li>• VESDA VLC Simplex Phase 2</li> <li>• VESDA VLC 800-MX Phase 2</li> <li>• VESDA VLC ESSER Phase 2</li> <li>• VESDA VLC AP Phase 2</li> </ul>	<p><b>VESDAnet</b></p> <ul style="list-style-type: none"> <li>• VESDA VLP</li> <li>• VESDA VLS</li> <li>• VESDA VLC</li> <li>• VESDA VLF</li> <li>• VESDA VLC</li> <li>• VESDA VLS</li> <li>• VESDA VFT-15</li> <li>• VESDA VFT-Sector</li> <li>• VESDA VLI</li> <li>• VESDA VEU</li> <li>• Remote Relay</li> <li>• VESDA Display</li> <li>• System Relay Module</li> <li>• VLS Remote Relay</li> <li>• VLS Display</li> <li>• VESDA Programmer</li> <li>• VESDA Sliding Windows HLI</li> <li>• VESDA Stop-and-go HLI</li> <li>• VESDA Open protocol HLI</li> <li>• VESDA Sliding Windows HLI with Dial Out</li> <li>• Analog Output Module</li> <li>• VESDA ModBus HLI</li> <li>• VESDA Access HLI</li> <li>• VESDA MODBUS3 HLI</li> </ul> <p><b>VESDAtalk</b></p> <ul style="list-style-type: none"> <li>• VESDA VLF</li> <li>• VESDAnet Card</li> <li>• Multifunction 020 Control Card</li> <li>• Multifunction 030 Control Card</li> </ul>

## Xtralis VSM4

Software Image	Description																																						
	<p>Xtralis VSM4 provides full and comprehensive integration of your VESDA and ICAM smoke and gas detection systems.</p> <p>Note: To correctly specify (order) the Xtralis VSM4 product, the following must be taken into consideration for each particular Xtralis VSM4 application.</p> <ol style="list-style-type: none"> <li>1. What are the total number of Monitoring PC's. 1 Primary PC is the minimum.</li> <li>2. Are there any Text to Speech requirements</li> <li>3. What are the total number of VESDAnetsto be monitored</li> <li>4. What are the total number of VESDA detectors on the VESDAnets to be monitored</li> <li>5. What are the total number of "Direct Connect" VESDA detectors.</li> </ol> <p><b>Ordering Info:</b>Xtralis VSM4 is available for download from <a href="http://www.xtralis.com">www.xtralis.com</a>.</p>																																						
	<table border="0"> <thead> <tr> <th data-bbox="512 645 683 674">Ordering Code</th> <th data-bbox="699 645 836 674">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="512 685 619 714">VSW-206</td> <td data-bbox="699 685 879 714">First PC License</td> </tr> <tr> <td data-bbox="512 725 619 754">VSW-216</td> <td data-bbox="699 725 986 754">Additional PC License PC</td> </tr> <tr> <td data-bbox="512 766 619 795">VSW-226</td> <td data-bbox="699 766 1126 795">VSM Primary PC (upgrade from VSM3)</td> </tr> <tr> <td data-bbox="512 806 619 835">VSW-346</td> <td data-bbox="699 806 1043 835">VESDAnet network Connection</td> </tr> <tr> <td data-bbox="512 846 619 875">VSW-356</td> <td data-bbox="699 846 1187 875">VESDAnet Detector Connection per detector</td> </tr> <tr> <td data-bbox="512 887 619 916">VSW-366</td> <td data-bbox="699 887 1193 916">VESDAtalk / VESDALink Detector Connection</td> </tr> <tr> <td data-bbox="512 927 667 956">VSW-427-001</td> <td data-bbox="699 927 1011 956">Connection tokens lic (1-20)</td> </tr> <tr> <td data-bbox="512 967 667 996">VSW-427-002</td> <td data-bbox="699 967 1038 996">Connection tokens lic (21-100)</td> </tr> <tr> <td data-bbox="512 1008 667 1037">VSW-427-003</td> <td data-bbox="699 1008 1054 1037">Connection token lic (101-1000)</td> </tr> <tr> <td data-bbox="512 1048 667 1077">VSW-427-004</td> <td data-bbox="699 1048 1018 1077">Connection token lic (&gt;1000)</td> </tr> <tr> <td data-bbox="512 1088 619 1117">VSW-501</td> <td data-bbox="699 1088 1102 1117">Text to Speech (Add voice message)</td> </tr> <tr> <td data-bbox="512 1128 619 1158">VSW-502</td> <td data-bbox="699 1128 967 1158">Text to Speech - English</td> </tr> <tr> <td data-bbox="512 1169 619 1198">VSW-517</td> <td data-bbox="699 1169 1078 1198">Text to Speech - English-American</td> </tr> <tr> <td data-bbox="512 1209 619 1238">VSW-600</td> <td data-bbox="699 1209 1193 1238">Remote Notification - Email Support (Per PC)</td> </tr> <tr> <td data-bbox="512 1249 619 1279">VSW-801</td> <td data-bbox="699 1249 1098 1279">VESDA Analytics DustTrace License</td> </tr> <tr> <td data-bbox="512 1290 619 1319">VSW-802</td> <td data-bbox="699 1290 1118 1319">VESDA Analytics DieselTrace License</td> </tr> <tr> <td data-bbox="512 1330 619 1359">VSW-803</td> <td data-bbox="699 1330 1098 1359">VESDA Analytics WireTrace License</td> </tr> <tr> <td data-bbox="512 1370 683 1400">VSW-356-ECO</td> <td data-bbox="699 1370 1161 1417">VESDA ECO Detector network connection One required per monitored detector</td> </tr> </tbody> </table>	Ordering Code	Description	VSW-206	First PC License	VSW-216	Additional PC License PC	VSW-226	VSM Primary PC (upgrade from VSM3)	VSW-346	VESDAnet network Connection	VSW-356	VESDAnet Detector Connection per detector	VSW-366	VESDAtalk / VESDALink Detector Connection	VSW-427-001	Connection tokens lic (1-20)	VSW-427-002	Connection tokens lic (21-100)	VSW-427-003	Connection token lic (101-1000)	VSW-427-004	Connection token lic (>1000)	VSW-501	Text to Speech (Add voice message)	VSW-502	Text to Speech - English	VSW-517	Text to Speech - English-American	VSW-600	Remote Notification - Email Support (Per PC)	VSW-801	VESDA Analytics DustTrace License	VSW-802	VESDA Analytics DieselTrace License	VSW-803	VESDA Analytics WireTrace License	VSW-356-ECO	VESDA ECO Detector network connection One required per monitored detector
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## Pipes and Fittings

Product Image	Ordering Code	Country	Description
	VP-P-210	US	VESDA CPVC pipe. Sold in box quantities of 210 linear feet.
	VP-P-420	US	VESDA CPVC pipe. Sold in box quantities of 420 linear feet.
	VP-COUP	US	Coupling, 3/4", Socket to Socket CPVC Couplings
	VP-UNION	US	Socket Union, 3/4" CPVC Union
	VP-ELB-45	US	Elbow - 45°, 3/4", Socket to Socket, 45°, CPVC Elbow
	VP-EC	US	End Cap, 3/4" CPVC
	VP-TEE	US	3/4" CPVC Pipe Tees
	VP-CLIP-US	US	3/4" pipe support clamp
	VP-CEMENT	US	Solvent Cement
	VP-CUTTERS	US	CPVC Pipe Cutters. cuts up to 1 1/2" pipe
	E700-SP	US	Miniature Sampling Point
	PIP-015		Flush Sample Point Head only (for 10 mm OD tube)

Product Image	Ordering Code	Country	Description
	VP-TEE-FPT	US	Tee, 3/4" x 1/2" FPY (pack of 10)
	VP-ELB-90	US	3/4", Socket to Socket, 90°, CPVC Elbow
	128-014		Label - Sampling Point
	128-015		VESDA sampling pipe labels (100 per roll)
	E700-SPLR-DCL		VESDA sampling point wrap around labels (200 per roll)
	VSP-860-US	US	Refrigerated Storage Sampling Kit - US
	VSP-870-US	US	In-line Flow Restrictor Assembly - US
	VSP-871		Flow Restrictor Disc (pack of 10)
	VSP-877		Flush Mount Sampling Point
	VSP-878		Push-in Connect Adaptor Kit for 1/2" capillary tubing
	E700-TUBE		Polyethylene tubing, black. 1/2" OD x 3/8" ID, FPE rated
	TUBING-250		Polyethylene tubing, black. 1/2" OD x 3/8" ID, FPE rated
	E700-CAP KIT		Plastic connector kit for miniature sampling point and capillary tube arrangement. Includes (1) Male connector, (1/2" thread x 1/2" OD Compression) and (1) Female Connector, (1/2" OD Compression)
	CAP-KIT		Brass connector kit for miniature sampling point and capillary tube arrangement. Includes (1) Male connector, (1/2" thread x 1/2" OD Compression) and (1) Female Connector, (1/2" OD Compression)

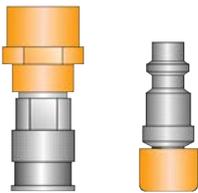
Product Image	Ordering Code	Country	Description
	E700-SPLR		Miniature sampling point label, round style, red
	E700-SPLG		Miniature sampling point label, round style, grey
	E700-SP-DCL-PIPE		Sampling pipe labels. Sold in roll quantity of 35.
	E700-SP-DCL		Sampling Point Decal, wrap around style (200 per roll). Place center area over sampling point and wrap decal around diameter of pipe.
	VSP-610		Tamper Proof Sampling Point Metric measurements
	VSP-610-US	US	Tamper Proof Sampling Point, 1" / 25 mm rigid or flexible conduit. Imperial measurements
	VSP-620-01		Tamper Proof Sampling Point, 6 mm capillary
	VSP-620-02		Tamper Proof Sampling Point, 8 mm capillary
	VSP-990		VESDA-E VEA 6mm Microbore Tube – 1000 ft, UL compliant Plenum Rated
	VSP-991		VESDA-E VEA 4mm Microbore Tube – 500 ft, UL compliant Plenum Rated
	02-3000-06		Stainless Steel Sampling Point (6 mm)
	02-2002-01P		Straight Union for microbore 1/4" (6mm) tube
	02-2003-01P		Tee Union for microbore 6 mm Tube (pack of 10)
	02-FL01-01		Sintered EOL Filter for Microbore 6 mm Tube

## Test and Commissioning Tools

Xtralis Test Transformer VTT-10000 is a tool used to test very early warning aspirated smoke detection equipment. It is used with VESDA-E, VESDA and ICAM.

Product Image	Ordering Code	Country	Description
	VTT-10000-USA	US	VESDA Test Transformer (Wire Burner) Previously known as the Hot Wire Test. This power supply unit is used to test VESDA-E, VESDA equipment. A timer is incorporated to provide a selectable burn period of up to 3 minutes.

## Smoke Test Tools

Product Image	Ordering Code	Country	Description
	251-001		Smoke Test Wire
	VSP-950		Test point pipe labels
	VSP-TP-KIT-US		Benchmark Test Point Kit (1 assembly, includes 1 Test Plug)
	VSP-810		Smoke Pen with 6 wicks
	VSP-811		Refill pack of 6 wicks
	PIP-040		ASD Head Unit Kit (includes Scorpion ASD Test Head & low level Access Point)
	PIP-041		Engineer's Portable Controller
	PIP-042		Battery Pack to power engineers controller

Product Image	Ordering Code	Country	Description
	PIP-043		Battery charger kit including car charger

# Analytics



VESDA Analytics Applications (Xapps) provide additional unique particle characterization capabilities that enable targeted detection and response.

## Product Description

VESDA Analytics is made possible by the revolutionary VESDA-E Flair Detection Technology, which brings a number of key enhancements over the existing laser chamber:

- A shorter wavelength laser source that allows tighter focusing and hence better signal to noise ratio resulting in enhanced sensitivity, superior stability and minimum nuisance alarms.
- Direct imaging of particles using a CMOS camera allowing data regarding size, colour and shape to be derived.
- Additional data from several photodiodes that allow measurement of light scatter in more directions and polarisations.

## Applications

- Food storage and processing facilities
- Storage facilities
- Warehouses and Cold Storage
- Clean manufacturing facilities
- Clean Rooms
- Loading bays
- Warehouses
- Telecommunications
- Data centers
- Cable and Telecommunications Tunnels
- Control Rooms
- Parking garages
- Bus depots
- Road tunnels

## How to get the Analytics?

VESDA Analytics are applications that can be purchased and activated to work on VESDA-E detectors. These applications are referred to as Xapps; and when purchased they are received as redeemable tokens. Xtralis Xchange is used to redeem the received tokens, download the Xapp and apply the license.

Simple Process:

1. Purchase Xapp through normal channels and receive redeemable token
2. Use Xchange to redeem token, download Xapp and apply license
3. Start using immediately.

## What are the available Xapps?

- **DustTrace™** provides targeted detection of dust which is present in the sampled air.
- **DieselTrace™** provides targeted detection of diesel engine exhaust particles that are abnormally present.
- **WireTrace™** provides targeted detection of particles from slowly overheating PVC insulated wires.

## DustTrace

### DustTrace Software Analytics



DustTrace is an optional software analytics that can be licensed for the VESDA-E series of aspirating smoke detectors. It provides targeted detection of dust which is present in the sampled air.

Ordering Codes	Description
VSW-801	DustTrace

## DieselTrace

### DieselTrace Software Analytics

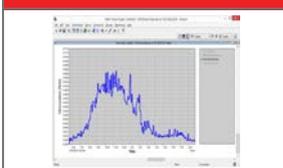


DieselTrace is an optional software analytics that can be licensed for the VESDA-E series of aspirating smoke detectors. It provides targeted detection of diesel engine exhaust particles in abnormal scenarios, such as when a diesel engine is not fitted with particle filters, or the particle filter fitted to a diesel engine malfunctions.

Ordering Codes	Description
VSW-802	DieselTrace

## WireTrace

### WireTrace Software Analytics



WireTrace is an optional software analytics that can be licensed for the VESDA-E series of aspirating smoke detectors. It provides targeted detection of particles released from slowly overheating PVC insulated wires. Detection of such particles will direct threat investigation to the primary source (i.e. electrical wires and/or cables), resulting in a faster response for ultimate asset protection and ensuring business continuity.

Ordering Codes	Description
VSW-803	WireTrace

## VESDA-E Analytics Relay Module

### Software Analytics



The VESDA-E Analytics Relay Module provides notification of an analytics event detected by a VESDA-E aspirating smoke detector with Analytics capability to third party devices, via relays. For example, the Analytics Relay Module outputs can be integrated with HVAC systems for environmental control.

Ordering Codes	Description
VRT-X00	VESDA-E Analytics Relay Module

## Location

Location	Contact Numbers
<b>Americas</b>	
Massachusetts, USA	Toll Free: 800 229 4434 Tel: (781) 616 1125 Fax: (781) 740 4433

## Technical Support

Product	Country	Address
VESDA	Americas	Tel: (800) 229-4434 support-vesda@xtralis.com
Proactiv	Americas	Tel: (800) 229-4434 support-proactiv@xtralis.com
General Customer Service Inquiries	Americas	Tel: (781) 616 1192 customerservice@xtralis.com
Service Center for Returns/Repairs service	Americas	support-vesda@xtralis.com

## About Xtralis

Xtralis® is the leading global provider of powerful solutions for the early detection and visual verification of fire, gas and security threats.

Our technologies prevent disasters by giving users time to respond before life, critical infrastructure or business continuity is compromised. We protect high-value and irreplaceable assets belonging to the world's top governments and businesses. Our brands include the VESDA-E™ – the latest generation of aspirating smoke detection technology; VESDA® – the world's No.1 very early warning aspirating smoke detection (ASD) systems; ICAM™ for flexible ASD; ECO™ – Gas detection & environmental monitoring modules for VESDA & ICAM systems; OSID® – easy to use smoke detection for open areas; ADPRO® & ADPRO-E™ – advanced, intelligent access, perimeter & intrusion detection solutions for multi-site & enterprise security; HeiTel™ – digital video remote monitoring; and, ASIM® – intelligent traffic detection.

Learn more: [www.xtralis.com](http://www.xtralis.com)

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