



# Safety Solutions Product Catalogue

(US)



[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 smoke, fire, and gas 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 innovations 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 leading ASD brand. 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).

### The award-winning Xtralis portfolio includes:

- VESDA-E Aspirating Smoke Detection (ASD)
- VESDA Aspirating Smoke Detection (ASD)
- Industrial VESDA VLI ASD for Industrial Applications
- OSID Open-area Smoke Detection
- 6500 Beam Detection

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 leading 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 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 Sensepoint XCL is a gas detection solution that utilizes the ASD pipe network to deliver superior gas detection via multiple hole (multi-point) sampling. The combined solution provides reliable detection of gases for occupant protection and process monitoring whilst simultaneously ensuring protection against fire threats.

The Li-ion Tamer Rack Monitor system is a gas detection solution that enhances the safety of lithium ion battery installations. It provides an alert to "off-gas" events that occur early in the failure mode of li-ion batteries well in advance of smoke detection and traditional LFL gas detectors. Early warning of off-gas events enables proper mitigation steps to be taken to avoid progression to a catastrophic thermal runaway failure.

### 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

Vertical Market	Coverage	2000m <sup>2</sup>				1000m <sup>2</sup>	500m <sup>2</sup>	250m <sup>2</sup>	2000m <sup>2</sup>	
	Detection	UVEW	AEW	VEW	AVEW	IVEW	VEW	VEW	Beam	PIAB
	Product	VEU	VEA	VEP-4	VES	VLI	VEP-1	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										

Application	Coverage	2000m <sup>2</sup>					1000m <sup>2</sup>	500m <sup>2</sup>	250m <sup>2</sup>	2000m <sup>2</sup>	
	Detection	UVEW	AEW	VEW	AVEW	IVEW	VEW	VEW	Beam	PIAB	
	Product	VEU	VEA	VEP-4	VES	VLI	VEP-1	VLF	OSID	XAS	
Waste Recycling											
Mining											
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 (CL 1 DIV 2)											
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
PIAB	Point-In-A-Box

# VESDA Models Comparison Chart

Features	VESDA-E					VESDA	VESDA Industrial Products
	VEU	VEP		VES	VEA	VLF 250/500	VLI
		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)	280 m (919 ft)	40 x 100 m (40 x 328 ft)	25/50 m (82/164 ft)	360 m (1.181 ft)
Pipe Length (Branched)	800 m (2.624 ft)	130 m (427 ft)	560 m (1.837 ft)	560 m (1.837 ft)	N/A	30/60 m (98/197 ft)	445 m (1.460 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)	2.000 m <sup>2</sup> (21.520 sq ft) 40-120 sample holes	250/500 m <sup>2</sup> (2.690/5.380 sq ft)	2.000 m <sup>2</sup> (21.520 sq ft)
No. of Pipe Inlets	4	1	4	4	40 expandable to 120 tubes	1	4
Multiple Pipe Addressability	No	No		Up to 4 sectors	Up to 40	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)		0.01% obs/m (0.0031 obs/ft)	1.6%obs/m (0.5% obs/ft)	0.025%obs/m (0.008% obs/ft)	0.15%/m (0.046%/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)		0.005 - 20%obs/m (0.0016% - 6.25% obs/ft)	0.020 - 16%obs/m (0.006 - 4.88%obs/ft)	0.025 - 20%obs/m (0.008 - 6.25%obs/ft)	0.005 - 20.0%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	40/80/100 **	40 - 40***	VLF 250 12/12/12 VLF 500 30/30/30	24/28/60
Sensitivity (%obs/m)	1.5/3/8	1.5/3/8		1.5/3/8 **	1.6/4/8	1.5/4.5/10	1.5/4.5/10
Transport time (seconds)	70/90/110	60/90/110		60/90/90 **	40 - 90 (Tube length dependent)	VLF- 250 60/60/60 VLF- 500 90/90/90	60/90/120
<b>Others</b>							
Hazardous Area Approval (FM Class 1, Div 2, Groups A, B, C, D)	No	Yes		No	N/A	Yes	Yes
IP Rating	IP40	IP40		IP40	IP40	IP30	IP66
Two Stage Filtration	Yes	Yes		Yes	Yes	Yes	Patented Intelligent Filter Secondary Foam Filter Sub-Sampling Probe
Total Number of Alarm Thresholds	4 (Day/Night)	4 (Day/Night)		32 (Day/Night)	4 (Day/Night)	4 (Day/Night)	4 (Day/Night)
Relay Outputs	7	7		12	7 (Expandable to 47)	3 (Expandable to 6)	5
On-board Memory (Max. Events)	20.000	20.000		20.000	20.000	18.000	18.000

Features	VESDA-E					VESDA	VESDA Industrial Products
	VEU	VEP		VES	VEA	VLF 250/500	VLI
		VEP-1	VEP-4				
AutoLearn™ (Smoke/Flow)	AutoLearn Smoke AutoLearn Flow	AutoLearn Smoke AutoLearn Flow		AutoLearn Smoke AutoLearn Flow	No	AutoLearn Smoke AutoLearn Flow	AutoLearn Smoke AutoLearn Flow
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	LEDs or 3.5" Colour Touch Screen	Local (7 on-board LEDs 10 Segment Circular Display) Remote display when fitted with VESDAnet card	Local (5 on-board LEDs) Remote display for VLI-885
Programming Tools - On-board Programming module - Handheld Programmer - PC Software (VSC, VSM)	Programmed via USB/ Ethernet/ WiFi connection to PC using VSC/VSM4	Programmed via USB/ Ethernet connection to PC using VSC/VSM4				Programmed via RS232 direct connection to PC using VSC or Programmer when VN card is fitted	Local USB configuration port Connection to PC using VSC/VSM4 Programmer for VLI-885
StaX Expandability	Yes	Yes	Yes	Yes	Yes	No	No
<b>VESDAnet™</b>							
Max. No. of devices/ detectors per loop	200/100	200/100		200/100	200/100	200/100 (with VN Card)	200/100 (VLI-885)
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) (with VN Card)	1.300 m (4.265 ft) (VLI-885)
Computer-based Management via VSM	Yes	Yes		Yes	Yes	Yes	Yes
Remote Relay Modules - 7 relay version - 12 relay version	VRT-500 N/A	VRT-500 N/A		VRT-E00 VRT-900	VRT-500 N/A	VRT-500 N/A	VRT-500 N/A
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		VRT400 VRT-800 VRT-700	VRT-200 N/A VRT-600	VRT-V00 N/A VRT-W00 (with VN Card)	VRT-Q00 N/A VRT-T00 (VLI-885)

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

\*\* Subject to agency testing.

\*\*\* Check local codes for the required transport times determined by the tube lengths



## Beam Detectors Comparison Chart

Features	6500	OSID-R	OSID-DE
Beam	Single IR	Single IR	Dual IR/UV
Technology	Reflective	Reflective	End-to-end/Multi-emitter (*)
Distance	100 m/ 328 ft.	100 m/ 328 ft.	200 m/ 656 ft.
Minimum free FOV	40x40cm/80x80 cm (with LRK)	40x40cm	20x20cm
Building movement	+/-0.5°	+/-1°	+/-2°
Resistance to dust	No	No	Yes
Beam trough glass panes	No	No	Yes
Resistance to solid object intrusion	No	Yes (Fault)	Yes (Fault)
Resistance to sunlight saturation	No	Yes (Fault)	Yes (Fault)
Angle of sunlight rejection	10°	10°	-
Log & diagnostics	No	No	Yes
Test at ground level	Yes	Yes	No
IP range	IP54	IP 55	IP45
T° range	-30°C to 55°C	-20 °C to +55	-10 °C to 55 °C
Max. Current	8.5mA Max. (Intl.) 38.5mA (Conv.)	22 mA @ 15 VDC (Intl.) 54 mA @10.2 V (Conv.)	8mA (31 mA alignment)
Voltage range	15-32VDC (Intl.) 10.2 to 32 VDC (Conv.)	15-32VDC (Intl.) 10.2 to 32 VDC (Conv.)	20-30 VDC

\* Up to 7 emitters for a an OSI-90 imager

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# 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.
- **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



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.

Ordering Codes	Description
<b>VEU-A00</b>	VESDA-E VEU with LEDs, Aluminium Enclosure
<b>VEU-A10</b>	VESDA-E VEU with 3.5" Display, Aluminium Enclosure
<b>Approvals:</b> UL, ULC, CSFM, VdS, CE, ActivFire, FM, NF, VNIPO, CCC, 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 - 4.83 kg (10.6 lbs), VEU-A10 - 4.9 kg (10.8 lbs)	
<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



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.

Ordering Codes	Description
<b>VEP-A00-1P</b>	VESDA-E VEP with LEDs, 1 pipe, Plastic Enclosure
<b>VEP-A00-P</b>	VESDA-E VEP with LEDs, 4 pipe, Plastic Enclosure
<b>VEP-A10-P</b>	VESDA-E VEP with 3.5" Display, 4 pipe, Plastic Enclosure
<b>Approvals:</b> UL, ULC, CSFM, FM, ActivFire, CE, VdS, NF, VNIPO, CCC, 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-A00-1P: 4.4 kg (9.7 lbs), VEP-A00-P: 4.4 kg (9.7 lbs), VEP-A10-P: 4.5 kg (9.9 lbs)	
<b>Area Coverage:</b> VEP-1P and VEP-P: 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 VES



The VESDA-E VES includes a valve mechanism in the inlet manifold and software to control the airflow from four Sectors (pipes). This configuration enables a single zone to be divided into four separate sectors. The VES enables the user to locate the source of smoke by identifying the first sector to reach the Alert level. The detector then continues to sample from all sectors to monitor fire growth and will report separate alarm levels for each sector. The VES provides four individually configurable alarm levels (Alert, Action, Fire 1 and Fire 2) for each sector allowing optimum protection in a wide range of applications.

Ordering Codes	Description
<b>VES-A00-P</b>	VESDA-E VES with LEDs, Plastic Enclosure
<b>VES-A10-P</b>	VESDA-E VES with 3.5" Display, Plastic Enclosure
<b>VES-A00-P-NF</b>	VESDA-E VES with LEDs, Plastic Enclosure - NF
<b>VES-A10-P-NF</b>	VESDA-E VES with 3.5" Display, Plastic Enclosure - NF
<b>Approvals:</b> UL, ULC, CSFM, ActivFire, VdS, 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> VES-A00-P: 4.7 kg (10.4 lbs), VES-A10-P: 4.8 kg (10.6 lb)	
<b>Area Coverage:</b> 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, FM, ActivFire, CE, VdS, EN 54-20, ISO 7240-20: Class A, B and C	
<b>Dimensions:</b> 352 x 336 x 135.5 mm (13.9 x 13.2 x 5.33 in)	
<b>Weight:</b> VEA-040-A00: 9.9 kg (21.8 lbs), VEA-040-A10: 10 kg (22.2 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 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>• EN 54-20</li><li>• Major agency approvals pending.</li></ul>	
<b>Dimensions:</b> 352.05 mm x 340.5 mm x 135.5 mm (13.9 in x 13.4 in x 5.3 in)	
<b>Weight:</b> 5.1 kg (11.22 lbs)	

# VESDA-E Accessories List

## VESDA-E VEA Accessories


Product Name and Image	Ordering Code	Description
	VSP-970	VESDA-E VEA-40 Mounting Bracket
	VSP-971	VESDA-E VEA-40 Smoke Sensor Module
	VSP-972	VESDA-E VEA Filter (single cartridge)
	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-977	VESDA-E VEA Filter (Pack of 10)
	VSP-978	VESDA-E VEA Sample Point Head Removal Key (Pack of 10)
	VSP-979	VESDA-E VEA Microbore Tube Cutter (Pack of 3)
	VSP-980-ST	VESDA-E VEA Stainless Steel Sample Point
	VSP-1007	VESDA-E VEA VSP-980-ST Sample Point Installation Tool (Pack of 5)
	VSP-1008	VESDA-E VEA VSP-980-ST Sample Point Duct Kit

Product Name and Image	Ordering Code	Description
	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)
	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-990-330	VESDA-E VEA 6mm Microbore Tube UL-compliant Plenum-rated (330ft)
	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/VES Accessories

Product Name and Image	Ordering Code	Description
	VSP-955	VESDA-E VES Scanner Manifold Spare
	VSP-960	VESDA-E Mounting bracket
	VSP-961	VESDA-E Exhaust Adaptor US
	VSP-962	VESDA-E VEU/VEP/VES Filter (single cartridge)
	VSP-962-20	VESDA-E VEU/VEP/VES Filter (pack of 20 cartridges)
	VSP-963	VESDA-E Aspirator
	VSP-964	VESDA-E Smoke Detection Chamber
	VSP-964-03	VESDA-E Smoke Detection Chamber - MK3
	VSP-965	VESDA-E Sampling Module
	VSP-966	VESDA-E VEU-A00 Front Cover with LEDs
	VSP-967	VESDA-E VEU-A10 Front Cover with 3.5" Display
	VSP-968	VESDA-E VEP-A00-P/1P Front Cover Plastic with LEDs


Product Name and Image	Ordering Code	Description
	VSP-969	VESDA-E VEP-A10-P Front Cover Plastic 3.5" Display
	VSP-969-S	VESDA-E VES-A10-P Front Cover Plastic (3.5" Display)

## VESDA-E Demo Kits

Ordering Code	Description
VKT-800	VESDA-E VEU Demo Kit
VKT-850	VESDA-E VEP Demo Kit
VKT-855	VESDA-E VES 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



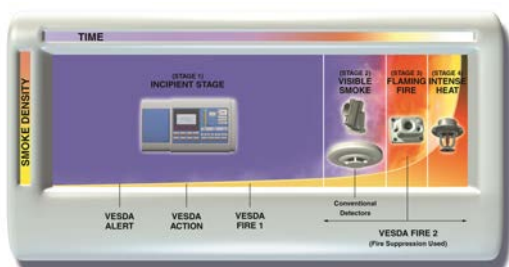
## The World's leading ASD Brand

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 leading ASD brand specified by fire professionals around the world, VESDA is synonymous with reliable, high performance fire detection.

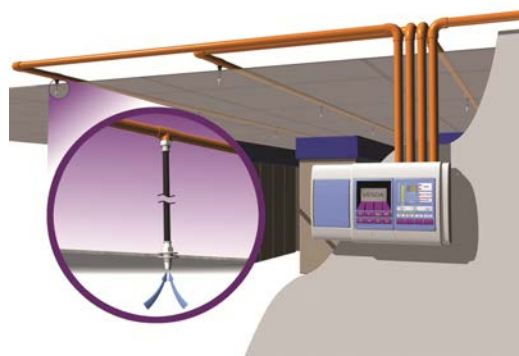
## How VESDA Works

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).



*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.*




## 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 VLF-250

	<p>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>).</p>
Ordering Codes	Description
<b>VLF-250-00</b>	VESDA VLF.
<b>VLF-250-SIE</b>	VESDA VLF Siemens version
<p><b>Approvals:</b> UL, ULC, FM Class I Div II, ActivFire, CE, LPCB, VdS, VNIPO, NF,EN 54-20 (Classes A (12 holes), B (12 holes), C (12 holes)), CCC. UL 94V0, NF F16-101, DIN 5510-2, EN 50155, SIL 2 as per IEC 61508 (2010) only for Rail Applications</p>	
<p><b>Dimensions:</b> 256 x 183 x 92 mm (10 x 7 x 3 in)</p>	
<p><b>Weight:</b> 2 kg (4.4 lbs)</p>	
<p><b>Area Coverage:</b> 250 m<sup>2</sup> (2,690 ft<sup>2</sup>)</p>	


### VESDA VLF-500

	<p>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>).</p>
Ordering Codes	Description
<b>VLF-500-00</b>	VESDA VLF.
<b>VLF-500-SIE</b>	VESDA VLF Siemens version
<p><b>Approvals:</b> UL, ULC, FM Class I Div II, ActivFire, CE, LPCB, VdS, VNIPO, NF,EN 54-20 (Classes A (30 holes), B (30 holes), C (30 holes)), CCC UL 94V0, NF F16-101, DIN 5510-2, EN 50155, SIL 2 as per IEC 61508 (2010) only for Rail Applications</p>	
<p><b>Dimensions:</b> 256 x 183 x 92 mm (10 x 7 x 3 in)</p>	
<p><b>Weight:</b> 2 kg (4.4 lbs)</p>	
<p><b>Area Coverage:</b> 500 m<sup>2</sup> (5,380 ft<sup>2</sup>)</p>	

### VESDA VLI

	<p>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.</p>
Ordering Codes	Description
<b>VLI-880</b>	VESDA VLI Detector
<b>VLI-885</b>	VESDA VLI with VESDAnet
<p><b>Approvals:</b> UL, ULC, FM, ActivFire, CE, VdS, LPCB, NF, SIL 2 as per IEC 61508, EN 54-20 (Class A (24 holes), Class B (28 holes), Class C (60 holes))</p>	
<p><b>Dimensions:</b> 426.5 x 316.5 x 180 mm (16.8 x 12.5 x 7.1 in)</p>	
<p><b>Weight:</b> 6.035 kg (13.3 lbs)</p>	
<p><b>Area Coverage:</b> 2.000 m<sup>2</sup> (21.520 ft<sup>2</sup>)</p>	

## VESDA Discontinued 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>	
	0	Blank plate	0	Blank plate	0	Blank plate
	4	FOK: Fire 1 Alarm and OK (FOK) LEDs	1	Programmer mounted in the middle	1	Programmer mounted in the far right position
			2	Display mounted in the middle	2	Display mounted in the far right position
				0	Standard detector orientation	
				1	Inverted Detector Orientation	
<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, NF, EN 54-20 (Class A (30 holes), Class B (60 holes), Class C (100 holes)), UL268A (in-duct application), NY-MEA						
<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, NF, EN 54-20 (Class A (40 holes), Class B (40 holes), Class C (60 holes)), UL268A (in-duct application), NY-MEA, CCC

**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>Approvals:</b> UL, ULC, CSFM, FM, ActivFire, CE, CPR, LPCB, VdS, VNIPO, NF, EN 54-20 (Class A (30 holes), Class B (36 holes), Class C (40 holes)), UL268A (in-duct application), NY-MEA, CCC	
<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>• UL</li> <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 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-J0000-MRN	Remote Display – VESDA VLC Marine

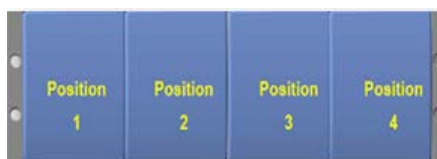
**Note:** All configurations include the remote mounting box, and are identifiable from a standard remote mounting box by the text on the blue cover. They can also be distinguished by the part number on the ratings label that appears on the bottom of the unit.



## 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.

## 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

## VESDAnet and Relay Cards

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

## 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-007	Remote Termination Card No Relays (RTC0)
VSP-008	Remote Termination Card 7 Relays (RCT7)
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
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


Part Number	Description
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-820	ASD Purge Unit - Single Channel
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
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



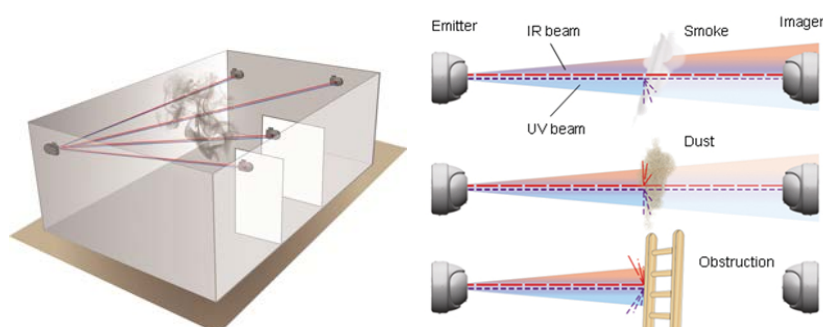
# OSID Open-area Smoke Imaging Detection



## OSID-DE Dual-ended smoke imaging detector

The dual-ended, OSID-DE (OSI-10 and OSI-90), combines dual frequency (IR and UV) beams with a CMOS Imager detector. OSID-DE 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 transient dust, fogging, steam, reflections and object intrusion. On-board log memory for diagnostic purposes completes the picture. The OSI-90 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.

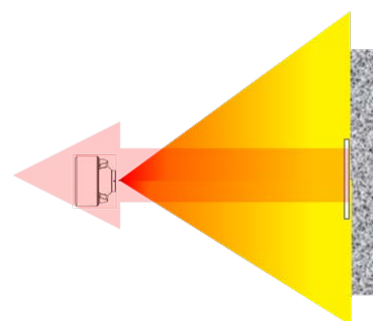
### True spatial detection



## OSID-R

### Reflective smoke imaging detector


OSID-R is a single IR beam using also a CMOS imager for signal analysis which provides greater levels of information for better decision making than any simple and basic IR photocell receiver technology. It features good tolerance to structural movement, reflections and object intrusion.




### 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-DE	
	OSID-DE 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-DE provides a low-cost, reliable and easy-to-install solution that overcomes typical beam detection issues such as false alarm incidents and alignment difficulties.
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, FM, VdS, NF-SSI (AFNOR), CSFM, CCCF, ActivFire, BOSEC, VNIIPO, CE - CPR and EMC	
<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-R	
	OSID-R is a new innovation in reflective beam smoke detection technology. It's using a single IR wavelength projected beam and optical imaging technology for smoke detection. OSID-R provides a low cost, reliable and easy-to-install solution that minimizes typical beam detection issues such as false alarm incidents and alignment difficulties.
Ordering Codes	Description
<b>OSI-R</b>	Conventional imaging smoke beam smoke detector including reflector - UL approved
<b>OSI-RA</b>	Conventional imaging smoke beam smoke detector including reflector - ULC approved
<b>Approvals:</b> UL, ULC, CSFM, FM	
<b>Dimensions:</b> 152.4 x 254 x 114.3 mm (6 x 10 x 4.5 in.)	
<b>Weight:</b> 1.12 kg (2.48 lbs)	
<b>Area Coverage:</b> 1800 m <sup>2</sup> (19368 ft <sup>2</sup> )	







# OSID Accessories List

## OSID-DE Accessories


Product Name and Image	Ordering Code	Description
	OSID-INST	OSID Installation Kit
	OSID-EHE	Emitter environmental housing IP66
	OSID-EHI	Imager environmental housing IP66
	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
	OSE-ACF	Anti-condensation film for Emitters
	OSEH-ACF	Anti-condensation film for OSID-EHE and OSID-EHI environmental housings
	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-R Accessories

Product Name and Image	Ordering Code	Description
	OSP-002	Laser Alignment tool
	OSP-004	Test filter - 10 pack
	RTS151KEY	Test and reset station for flush mount
	RTS151KIT	Test and reset station for surface mount
	BEAMHKR	Heater kit for the reflector
	6500MMK	Multi-mount accessory for ceiling or wall mounting with additional mounting adjustment

## OSID-DE 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.

## OSID-DE Software

Software	Description
 <p data-bbox="225 831 504 857">OSID-DE Diagnostic Tool</p>	<p data-bbox="544 651 1430 797">OSID-DE 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 data-bbox="544 815 1318 871"><b>Ordering Info:</b> OSID-DE Diagnostic Tool is available for download from <a href="http://www.xtralis.com">www.xtralis.com</a>.</p>
 <p data-bbox="209 1066 520 1093">OSID-DE Selection Assistant</p>	<p data-bbox="544 925 1414 1010">OSID-DE Selection Assistant. Excel based calculation tool to find the best suited OSID-DE solution for a given area. Also compares OSID-DE the solution to any third party beam, including labor and wiring.</p> <p data-bbox="544 1028 1198 1055"><b>Ordering Info:</b> Available for download from <a href="http://www.xtralis.com">www.xtralis.com</a>.</p>

# Conventional Optical Smoke Beam Detector




## System Sensor 6500RS and 6500R

The 6500RS and 6500R are conventional reflector- type linear optical beam smoke detectors designed to operate as components of conventional fire alarm systems. They operate primarily on the principle of light obscuration utilising an Infra-Red beam. The 6500RS has a unique remote test capability that fully tests both the optics and the electronics of the device. Optical beam smoke detectors are particularly appropriate for protecting buildings with large open spaces such as warehouses, atriums, etc.

## Applications

- Shopping Malls
- Long Corridors
- Airport Terminals and Train Stations
- Heritage Buildings
- Indoor Stadiums and Arenas
- Churches and Cathedrals
- Exhibition and Convention Centers

## System Sensor 6500 Products List

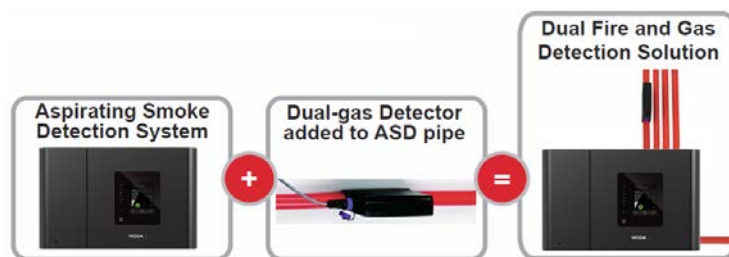
System Sensor 6500	
	<p>The System Sensor 6500RS and 6500R are conventional reflector- type linear optical beam smoke detectors operating primarily on the principle of light obscuration. The detector uses a single Infra-Red beam and a photocell as receiver.</p>
Ordering Codes	Description
<b>6500R</b>	Conventional Beam Detector
<b>6500RS</b>	Conventional Beam Detector featuring Assuretest remote test capability
<b>Approvals:</b> LPCB, VdS, BOSEC, CE - CPR and EMC	
<b>Dimensions:</b> 254 x 190 x 84 mm	
<b>Weight:</b> 1.77 kg	
<b>Area Coverage:</b> 5 – 100 meters	

## System Sensor 6500 Accessories List

Product Name and Image	Ordering Code	Description
	6500-LRK	Long Range reflector kit (70 – 100m range)
	6500-MMK	Multi-mount accessory for ceiling or wall mounting with additional mounting adjustment (BEAMSMK also required)
	6500-SMK	Surface Mount accessory
	BEAMHK	Heater kit for the beam
	BEAMHKR	Heater kit for the reflector
	RTS151KEY	Imager Reset Station Flush Mount
	RTS151KIT	Imager Reset Station Surface Mount



# 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.



## How VESDA Sensepoint XCL - Large Bore Works

VESDA Sensepoint XCL – Large Bore is designed to be incorporated to existing or new ASD pipe networks without major construction or electrical cabling / conduit and utilizes the flow in the pipe for the continuous delivery of air samples to the gas sensor for analysis. It is capable of remote sampling which means the detector can be placed outside the detection zone at a convenient location saving time and money for routine maintenance & service. Air drawn to the detector can be conditioned to remove contaminants which ensures detector maintains reliable long-term performance in a wide range of environments.

A single VESDA Sensepoint XCL – Large Bore detector delivers multi-point gas sampling capability giving it the advantage of providing greater coverage area, increased design flexibility and reliable detection in high airflow areas when compared to fixed point gas detectors.

## How VESDA Sensepoint XCL - Micro Bore ASD System Works

VESDA Sensepoint XCL detector can be added to existing or new VESDA-E VEA tube network installations to actively monitor for gas leakages and build-ups. It integrates with other building systems, including fire alarm control panels, PLCs, HVAC and building management systems, and provides real-time situational awareness for intelligent emergency response. VESDA Sensepoint XCL – Micro Bore ASD System provides significant installation and routine maintenance cost savings by providing easy access to diagnostic information for servicing. Sensor cartridges are easily replaced in the field through simple steps.

## 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
- Indoor air quality monitoring
- Beverage distilleries
- Detection of various combustible gases in fuel storage areas
- Monitoring of oxygen levels and detection of toxic gases in confined spaces
- Food & beverage for the detection of alcohols and carbon dioxide
- Detection of refrigerant leakage in refrigerated systems
- Greenhouses for the monitoring and control of carbon dioxide levels
- Bus and Train Locomotive Depots
- Universities and schools
- Commercial premises
- Hotels, Hospitals, Residential

## VESDA Sensepoint XCL Products List

### VESDA Sensepoint XCL- Micro Bore ASD System



Xtralis the manufacturer of the market leading VESDA Aspirating Smoke Detection (ASD) technology has developed with its sister company Honeywell Analytics a new concept of aspirated gas detectors. When used with the VESDA-E VEA; VESDA Sensepoint XCL provides early warning of the presence of gases for occupant protection and system monitoring whilst at the same time ensuring protection against fire threats. Through its embedded Bluetooth interface, VESDA Sensepoint XCL detector enables customers to pair the gas detector with their smart device applications to perform installation, commissioning and maintenance. This ensures a faster VESDA Sensepoint XCL installation, rapid configuration, simplicity to operate, and simplified maintenance.

Ordering Codes	Description
<b>XCL-VEA-CO-RA</b>	VESDA Sensepoint XCL CO 300ppm 4-20mA Relay for VEA
<b>XCL-VEA-CO-RM</b>	VESDA Sensepoint XCL CO 300ppm Modbus Relay for VEA
<b>XCL-VEA-CH4-RA</b>	VESDA Sensepoint XCL CH <sub>4</sub> 0-100% LEL 4-20mA Relay for VEA
<b>XCL-VEA-CH4-RM</b>	VESDA Sensepoint XCL CH <sub>4</sub> 0-100% LEL Modbus Relay for VEA
<b>XCL-VEA-H2-RA</b>	VESDA Sensepoint XCL H <sub>2</sub> 1000ppm 4-20mA Relay for VEA
<b>XCL-VEA-H2-RM</b>	VESDA Sensepoint XCL H <sub>2</sub> 1000ppm Modbus Relay for VEA
<b>XCL-VEA-CO2VV-RA</b>	VESDA Sensepoint XCL CO <sub>2</sub> 5% v/v 4-20mA Relay for VEA
<b>XCL-VEA-CO2VV-RM</b>	VESDA Sensepoint XCL CO <sub>2</sub> 5% v/v Modbus Relay for VEA
<b>XCL-VEA-CO2PP-RA</b>	VESDA Sensepoint XCL CO <sub>2</sub> 5000ppm 4-20mA Relay for VEA
<b>XCL-VEA-CO2PP-RM</b>	VESDA Sensepoint XCL CO <sub>2</sub> 5000ppm Modbus Relay for VEA
<b>XCL-VEA-CO-RA-5</b>	5 x VESDA Sensepoint XCL CO 300ppm 4-20mA Relay for VEA
<b>XCL-VEA-CH4-RA-5</b>	5 x VESDA Sensepoint XCL CH <sub>4</sub> 0-100% LEL 4-20mA Relay for VEA
<b>XCL-VEA-H2-RA-5</b>	5 x VESDA Sensepoint XCL H <sub>2</sub> 1000ppm 4-20mA Relay for VEA

#### Approvals:

##### Electrical Safety

- Conforms to EN/UL/IEC61010-1
- Certified to CSA-C22.2 No. 61010- 1-12

##### • CE - EMC

- EN 50270

##### • RADIO

- RED, FCC, BT SIG

##### • OTHERS

- UL2075 (CO and CH<sub>4</sub>), AS 1668.2

**Dimensions:** 113 x 113 x 59 mm (4.4 x 4.4 x 2.3 in)

**Weight:** 500 g (1.1 lb)

### Spare Parts

Part Number	Description
XCL-FILTER	VESDA Sensepoint XCL Replacement Filter - Pack of 10
XCL-VEA-CAL	VESDA Sensepoint XCL Calibration/Flow Cap for VEA
XCL-M20-CG	VESDA Sensepoint XCL Cable Glands - Pack of 10
XCL-VEA-TUB	VESDA Sensepoint XCL Tubing Interface for VEA
XCL-COVER	VESDA Sensepoint XCL Sensor Cover with Gasket
XCL-XRL-SC-CO	VESDA Sensepoint XCL/XRL Replacement Sensor - CO 300ppm

Part Number	Description
XCL-SC-CH4	VESDA Sensepoint XCL Replacement Sensor – CH <sub>4</sub> 0-100% LEL
XCL-XRL-SC-H2	VESDA Sensepoint XCL/XRL Replacement Sensor – H <sub>2</sub> 1000ppm
XCL-SC-CO2VV	VESDA Sensepoint XCL Replacement Sensor - CO <sub>2</sub> 5% v/v
XCL-SC-CO2PP	VESDA Sensepoint XCL Replacement Sensor - CO <sub>2</sub> 5000ppm

## VESDA Sensepoint XCL- Large Bore



VESDA Sensepoint XCL – Large Bore is a gas detection solution that utilizes the ASD pipe network to deliver superior gas detection via multiple hole (multi-point) sampling. The combined solution provides reliable detection of gases for occupant protection and process monitoring whilst simultaneously ensuring protection against fire threats.

The VESDA Sensepoint XCL – Large Bore portfolio has a range of gas sensors that addresses a wide range of applications and through its Bluetooth interface can be paired with a smart device for commissioning and maintenance. The smart device application (Sensepoint App) provides quick access to detector diagnostic information and simplifies detector configuration, calibration and bump testing.

Ordering Codes	Description
<b>XCL-LB-CH4-RA</b>	Flammable (CAT) 20-100% LEL 4-20mA Relay
<b>XCL-LB-CH4-RM</b>	Flammable (CAT) 20-100% LEL Modbus Relay
<b>XCL-LB-O2-RA</b>	Oxygen 25.0% v/v (Fixed) 4-20mA Relay
<b>XCL-LB-O2-RM</b>	Oxygen 25.0% v/v (Fixed) Modbus Relay
<b>XCL-LB-CO-RA</b>	Carbon Monoxide 50 to 1000 ppm 4-20mA Relay
<b>XCL-LB-CO-RM</b>	Carbon Monoxide 50 to 1000 ppm Modbus Relay
<b>XCL-LB-H2-RA</b>	Hydrogen 1000ppm (Fixed) 4-20mA Relay
<b>XCL-LB-H2-RM</b>	Hydrogen 1000ppm (Fixed) Modbus Relay
<b>XCL-LB-H2S-RA</b>	Hydrogen Sulphide 10 to 50 ppm 4-20mA Relay
<b>XCL-LB-H2S-RM</b>	Hydrogen Sulphide 10 to 50 ppm Modbus Relay
<b>XCL-LB-NO2-RA</b>	Nitrogen Dioxide 5 to 50 ppm 4-20mA Relay
<b>XCL-LB-NO2-RM</b>	Nitrogen Dioxide 5 to 50 ppm Modbus Relay
<b>XCL-LB-NH3-RA</b>	Ammonia 50 to 200 ppm 4-20mA Relay
<b>XCL-LB-NH3-RM</b>	Ammonia 50 to 200 ppm Modbus Relay
<b>XCL-LB-CO2PP-RA</b>	Carbon Dioxide 1000 to 5000 ppm 4-20mA Relay
<b>XCL-LB-CO2PP-RM</b>	Carbon Dioxide 1000 to 5000 ppm Modbus Relay
<b>XCL-LB-CO2VV-RA</b>	Carbon Dioxide 1.0 to 5.0% v/v 4-20mA Relay
<b>XCL-LB-CO2VV-RM</b>	Carbon Dioxide 1.0 to 5.0% v/v Modbus Relay

### Approvals:

#### Electrical Safety

- Conforms to EN/UL/IEC61010-1
- Certified to CSA-C22.2 No. 61010- 1-12

#### • CE - EMC

- EN 50270

#### • RADIO

- RED, FCC, BT SIG

#### • OTHERS

- UL2075 (CO and CH<sub>4</sub>), AS 1668.2


**Dimensions:** 113 x 113 x 59 mm (4.4 x 4.4 x 2.3 in)

**Weight:** 500 g (1.1 lb)

## Spare Parts

Part Number	Description
XCL-LB-CAP	Flow Cap
XCL-LB-ELB	60° Elbows – pack of 4
XCL-M20-CG	Cable Glands – pack of 10
XCL-LB-FLT-1	Filter CAT, NH <sub>3</sub> , CO <sub>2</sub> – pack of 10
XCL-LB-FLT-2	Filter CO, O <sub>2</sub> , H <sub>2</sub> S, NO <sub>2</sub> , H <sub>2</sub> – pack of 10
XCL-LB-COV-1	Sensor Cover CAT, NH <sub>3</sub> , CO <sub>2</sub>
XCL-LB-COV-2	Sensor Cover CO, O <sub>2</sub> , H <sub>2</sub> S, NO <sub>2</sub> , H <sub>2</sub>
XCL-SC-O2	Replacement Sensor - O <sub>2</sub> 25% v/v
XCL-SC-NH3	Replacement Sensor - NH <sub>3</sub> 50-200 ppm
XCL-SC-NO2	Replacement Sensor - NO <sub>2</sub> 5-50 ppm
XCL-SC-H2S	Replacement Sensor - H <sub>2</sub> S 10-50 ppm
XCL-XRL-SC-H2	Replacement Sensor - H <sub>2</sub> 1000 ppm
XCL-XRL-SC-CO	Replacement Sensor - CO 50-1000 ppm
XCL-SC-CO2VV	Replacement Sensor - CO <sub>2</sub> 1.0-5.0% v/v
XCL-SC-CO2PP	Replacement Sensor - CO <sub>2</sub> 1000-5000 ppm
XCL-SC-CH4	Replacement Sensor - CH <sub>4</sub> 20-100% LEL

## ECO Products List

VESDA ECO Ex Gas Detector	
	<p>VESDA ECO Ex provides early warning of flammable (alcohols) gas hazards to protect personnel and property whilst ensuring business continuity.</p> <p>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, Class 1 Division 2)
<i>ECO-D-B-20-Ex</i>	Alcohol Vapor 0-100% LEL
<i>Part Number</i> Structure	Description
<i>ECO-D-B-AA-Ex</i>	Single Gas Unit Replace AA with the relevant gas type number.
<p><b>Approvals:</b></p> <ul style="list-style-type: none"> <li>• <b>Electrical Safety</b> <ul style="list-style-type: none"> <li>◦ Conforms to ANSI/UL Std 61010-1</li> <li>◦ Certified to CAN/CSA Std C22.2 No. 61010-1</li> <li>◦ EN 61010-1</li> </ul> </li> <li>• <b>EMC</b> <ul style="list-style-type: none"> <li>◦ FCC 47CFR Part 15B class B</li> <li>◦ ICES 003</li> <li>◦ EN 50270</li> </ul> </li> <li>• <b>Hazardous Location</b> <ul style="list-style-type: none"> <li>◦ ETL approved to ISA12.12.01, CSA C22.2 No. 213</li> <li>◦ Class I Div 2 Groups ABC&amp;D T4 -4°F ≤ Tamb ≤ +131°F</li> </ul> </li> </ul>	
<p><b>Dimensions:</b> 155 x 135 x 74 mm (6.1 x 5.3 x 2.9 in.)</p>	
<p><b>Weight:</b> 1 kg (2.2 lb) detector and enclosure combined</p>	

## VESDA ECO 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 (NO <sub>2</sub> ) 0-10 PPM
ECO-SC-49-Ex	Carbon Dioxide (CO <sub>2</sub> ) 0-5% VOL

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

Ordering Code	Description
ECO-SC-12-43-Ex	Methane (CH <sub>4</sub> ) 0-100% LEL + Hydrogen Sulfide (H <sub>2</sub> S) 0-100 PPM
ECO-SC-13-31-Ex	Propane (C <sub>3</sub> H <sub>8</sub> ) 0-100% LEL + Oxygen (O <sub>2</sub> ) 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
	LF41291	USB access port Rubber Bung
	LF41313	USB Connection Lead
	LF41301	Sensor Cartridge O-Ring
	LF41302	Filter Cartridge O-Ring
	LF41312	MicroSD Card



# Xtralis Li-ion Tamer Battery Rack Monitor



The Li-ion Tamer Rack Monitor system is a gas detection solution that enhances the safety of lithium ion batteries installations. It provides an alert to “off- gas” events that occur early in the failure mode of li-ion batteries well in advance of smoke detection and traditional LFL gas detectors. Early warning of off-gas events enables proper mitigation steps to be taken to avoid progression to a catastrophic thermal runaway failure.

The Li-ion Tamer Rack Monitoring system is designed to be plug-and-play, easily to install and consists of two primary components, (i) off-gas sensors, (ii) controller.

- Off-gas sensors comprise on-board detection algorithms making them acutely sensitive to lithium-ion battery off-gassing compounds, do not require calibration, are compatible with all forms of lithium-ion battery form factors and chemistries and have a lifetime comparable to a typical lithium-ion battery system.
- Off-gas sensors are connected to the controller that contains proprietary logic to diagnose when and where battery off-gas events have occurred. It has digital and Modbus serial outputs that can be used to electrically isolate the battery system and activate the ventilation system.

## Applications

- Any containerized or purpose build lithium-ion battery Energy Storage Systems (ESS)
- Data Centers where reliable power sources are essential
- On-shore and off-shore Marine applications
- Commercial environments where lithium-ion storage is applied

## Xtralis Li-ion Tamer Products List

### Li-ion Tamer Battery Rack Monitor



The Li-ion Tamer Battery Rack Monitor is a safety product specifically designed to detect the potential thermal runaway of lithium-ion batteries. The key to Li-ion Tamer's value proposition is the distributed gas sensing network that provides the earliest warning of battery failure by detecting single cell off-gas events which precede thermal runaway. If Li-ion Tamer off-gas monitoring is paired with proper mitigating actions, thermal runaway can be entirely avoided.

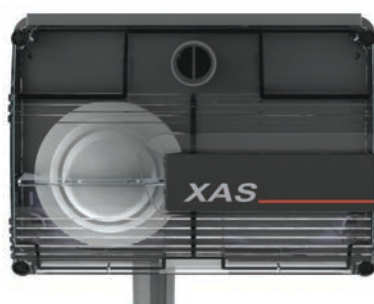
Ordering Codes	Item	Description
<b>LT-SEN-M</b>	OGM, Monitoring Sensor	Mounted on/near Li-ion battery rack to detect off-gas from cells
<b>LT-SEN-R</b>	OGM, Reference sensor	Mounted around the ESS
<b>LT-CTR-C</b>	Combined Controller	Controller with 12 ports for monitoring and 3 ports for reference sensors
<b>LT-ACC-PCL</b>	10' Power Cable	Power cable for all Li-ion Tamer controllers
<b>LT-ACC-DCL</b>	10' Digital Output Cable	Digital output cable for all Li-ion Tamer controllers
<b>LT-ACC-MCL-25, -50, -100</b>	25, 50, 100 (ft) Monitoring Sensor Cable (various lengths)	Shielded RJ45 connector cable used with Monitoring sensors, Black
<b>LT-ACC-RCL-25, -50, -100</b>	25, 50, 100 (ft) Reference Sensor Cable (various lengths)	Shielded RJ45 connector cable used with Reference sensors, Blue
<b>LT-ACC-CCL-1, -3, -25, -50, -100</b>	1, 3, 25, 50, 100 (ft) Controller Daisy Chain Cable (various lengths)	Shielded RJ45 connector cable used to daisy-chain reference network signal to other controllers, Grey
<b>LT-ACC-SCL-MF</b>	6' Male-Female Serial Cable	MODBUS DB9 RS232 cable to connect the serial output to the TCP/IP Adapter or customer interface
<b>LT-ACC-IPA</b>	MODBUS TCP/IP Adapter	Adapter for changing the native MODBUS RTU output from the Li-ion Tamer controller to MODBUS TCP/IP
<b>LT-ACC-RLY</b>	Form C Relay	Standard dry-contact Form C relay
<b>LT-ACC-TST</b>	Li-ion Tamer Puff Test DEC Bottle	A plastic bottle with a small amount of DEC for use during bump testing of sensors
<b>LT-ACC-BKT-PK5</b>	Sensor Mount Kit Spare - 5BKT 10NUT	Sensor Mount Kit Spare – 5x brackets 10x nuts

#### Approvals:

- ETL listed to UL 61010 and CSA 22.2 NO. 61010 for product safety
- EN 61326 for EU Directive (2014/30/EU)
- RoHS 3 EU 2015/863

**Controller's Dimensions:** 210 (W) x 113 (L) x 63 (H))

# 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

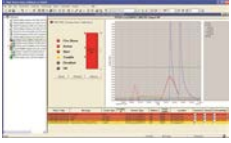
## iVESDA

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-E VES</li> <li>• VESDA VLP</li> <li>• VESDA VLS</li> <li>• VESDA VLC</li> <li>• VESDA VLF</li> <li>• VESDA VLI</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> <li>• VESDA-E VES</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>• NH<sub>3</sub> ppm Sensor</li> <li>• O<sub>2</sub> % v/v Sensor</li> <li>• H<sub>2</sub> % LFL Sensor</li> <li>• H<sub>2</sub>S ppm Sensor</li> <li>• SO<sub>2</sub> ppm Sensor</li> <li>• NO<sub>2</sub> ppm Sensor</li> <li>• CH<sub>4</sub> % LFL Sensor</li> <li>• C<sub>3</sub>H<sub>8</sub> % LFL Sensor</li> <li>• H<sub>2</sub> ppm Sensor</li> <li>• Cl<sub>2</sub> ppm Sensor</li> <li>• CO<sub>2</sub> % v/v Sensor</li> <li>• C<sub>5</sub>H<sub>12</sub> % LFL Sensor</li> <li>• O<sub>2</sub> Dep/Enr % v/v Sensor</li> <li>• Alcoh % LFL Sensor</li> <li>• Pet Vap % LFL Sensor</li> <li>• NH<sub>3</sub> % LFL Sensor</li> </ul> <p><b>MODBUS</b></p> <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 VLI</li> <li>• VESDA-E VEU</li> <li>• VESDA-E VEP</li> <li>• VESDA-E VEA</li> <li>• VESDA-E VES</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 VESDAnets to 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="512 645 687 674">Ordering Code</th> <th data-bbox="687 645 1439 674">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="512 685 687 714">VSW-206</td> <td data-bbox="687 685 1439 714">First PC License</td> </tr> <tr> <td data-bbox="512 725 687 754">VSW-216</td> <td data-bbox="687 725 1439 754">Additional PC License PC</td> </tr> <tr> <td data-bbox="512 766 687 795">VSW-226</td> <td data-bbox="687 766 1439 795">VSM Primary PC (upgrade from VSM3)</td> </tr> <tr> <td data-bbox="512 806 687 835">VSW-346</td> <td data-bbox="687 806 1439 835">VESDAnet network Connection</td> </tr> <tr> <td data-bbox="512 846 687 875">VSW-356</td> <td data-bbox="687 846 1439 875">VESDAnet Detector Connection per detector</td> </tr> <tr> <td data-bbox="512 887 687 916">VSW-366</td> <td data-bbox="687 887 1439 916">VESDAtalk / VESDALink Detector Connection</td> </tr> <tr> <td data-bbox="512 927 687 956">VSW-427-001</td> <td data-bbox="687 927 1439 956">Connection tokens lic (1-20)</td> </tr> <tr> <td data-bbox="512 967 687 996">VSW-427-002</td> <td data-bbox="687 967 1439 996">Connection tokens lic (21-100)</td> </tr> <tr> <td data-bbox="512 1008 687 1037">VSW-427-003</td> <td data-bbox="687 1008 1439 1037">Connection token lic (101-1000)</td> </tr> <tr> <td data-bbox="512 1048 687 1077">VSW-427-004</td> <td data-bbox="687 1048 1439 1077">Connection token lic (&gt;1000)</td> </tr> <tr> <td data-bbox="512 1088 687 1117">VSW-501</td> <td data-bbox="687 1088 1439 1117">Text to Speech (Add voice message)</td> </tr> <tr> <td data-bbox="512 1128 687 1158">VSW-502</td> <td data-bbox="687 1128 1439 1158">Text to Speech - English</td> </tr> <tr> <td data-bbox="512 1169 687 1198">VSW-517</td> <td data-bbox="687 1169 1439 1198">Text to Speech - English-American</td> </tr> <tr> <td data-bbox="512 1209 687 1238">VSW-600</td> <td data-bbox="687 1209 1439 1238">Remote Notification - Email Support (Per PC)</td> </tr> <tr> <td data-bbox="512 1249 687 1279">VSW-356-ECO</td> <td data-bbox="687 1249 1439 1279">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-356-ECO	VESDA ECO Detector network connection One required per monitored detector
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Software Image	Description	
<b>Supported Products</b>	<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>• NH<sub>3</sub> ppm Sensor</li> <li>• O<sub>2</sub> % v/v Sensor</li> <li>• H<sub>2</sub> % LFL Sensor</li> <li>• H<sub>2</sub>S ppm Sensor</li> <li>• SO<sub>2</sub> ppm Sensor</li> <li>• NO<sub>2</sub> ppm Sensor</li> <li>• CH<sub>4</sub> % LFL Sensor</li> <li>• C<sub>3</sub>H<sub>8</sub> % LFL Sensor</li> <li>• H<sub>2</sub> ppm Sensor</li> <li>• Cl<sub>2</sub> ppm Sensor</li> <li>• CO<sub>2</sub> % v/v Sensor</li> <li>• C<sub>5</sub>H<sub>12</sub> % LFL Sensor</li> <li>• O<sub>2</sub> Dep/Enr % v/v Sensor</li> <li>• Alcoh % LFL Sensor</li> <li>• Pet Vap % LFL Sensor</li> <li>• NH<sub>3</sub> % LFL Sensor</li> </ul> <p><b>MODBUS</b></p> <ul style="list-style-type: none"> <li>• VLW-008 2.19.00 - 3.00.405</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 VLI</li> <li>• VESDA-E VEA</li> <li>• VESDA-E VEU</li> <li>• VESDA-E VEP</li> <li>• VESDA-E VES</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>

## Pipes and Fittings

Product Image	Ordering Code	Country	Description
	VP-P-105	US	Pipe - 3/4" (105 ft. kit)
	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-BV	US	Ball Valve, 10 per box
	VP-CUTTERS	US	CPVC Pipe Cutters. cuts up to 1 1/2" pipe
	E700-SP	US	Miniature Sampling Point



Product Image	Ordering Code	Country	Description
	PIP-015		Flush Sample Point Head only (for 10 mm OD tube)
	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 * Please ensure PIP-008 (T-Piece) is also used.
	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-877-B		Flush Mount Sampling Point (Black)
	VSP-877-G		Flush Mount Sampling Point (Grey)
	VSP-878		Push-in Connect Adaptor Kit for 1/2" capillary tubing

Product Image	Ordering Code	Country	Description
	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)
	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-620-03		Tamper Proof Sampling Point, 10 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.





### Test Transformer

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.
	251-001		Smoke Test Wire


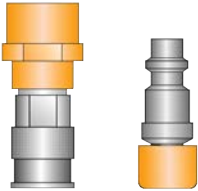
### Smoke Pen

Product Image	Ordering Code	Country	Description
	VSP-810		Smoke Pen with 6 wicks
	VSP-811		Refill pack of 6 wicks

### Scorpion Test System

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

## General Tools

Product Image	Ordering Code	Country	Description
	VSP-950		Test point pipe labels
	VSP-TP-KIT-US		Benchmark Test Point Kit (1 assembly, includes 1 Test Plug)

## Location

Location	Contact Numbers
<b>Americas</b>	
12 Clintonville Road Northford, CT 06472 USA	Toll Free: 800 229 4434 Tel: (781) 740 4433 Fax: (781) 740 4433

## Technical Support

Type of Service	Country	Address
<b>VESDA</b>	Americas	Tel: (800) 229-4434 <a href="mailto:support-vesda@xtralis.com">support-vesda@xtralis.com</a>
<b>General Customer Service Inquiries</b>	Americas	Tel: (800) 229-4434 <a href="mailto:customerservice@xtralis.com">customerservice@xtralis.com</a>
<b>Service Center for Returns/Repairs service</b>	Americas	<a href="mailto:support-vesda@xtralis.com">support-vesda@xtralis.com</a>





## ABOUT XTRALIS

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Xtralis is the leading global provider of powerful solutions for the very early and reliable detection of smoke, fire, and gas threats. Our technologies prevent disasters by giving users time to respond before life, critical infrastructure or business continuity is compromised.

We protect highly valued assets and infrastructure belonging to the world's top governments and businesses.

**To learn more, please visit us at [www.xtralis.com](http://www.xtralis.com)**