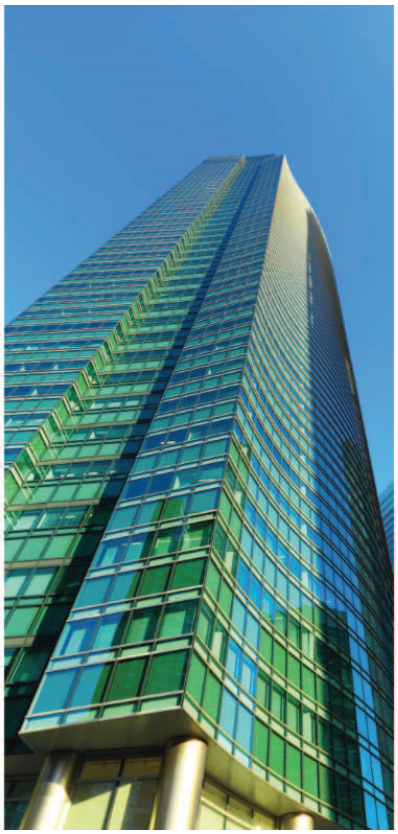
Safety Solutions Product Catalogue

(Australia and New Zealand)








www.xtralis.com

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About Xtralis

Xtralis is a 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 ASD
- VESDA ASD
- Industrial VESDA VLI ASD for Industrial Applications
- ICAM Flexible ASD
- OSID Open-Area Smoke Detection
- 6500 Beam Detection
- Li-ion Tamer GEN 3

Learn more: www.xtralis.com

ABOUT XTRALIS

Safety Products

Xtralis is the inventor and pioneer of VESDA 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 ASD

VESDA-E is the next generation of 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 VEA introduces pinpoint addressability to deliver situational awareness to improve response time and efficiency for up to 40 locations. Other advanced features, including StaX expansion modules, add capabilities like gas detection for enhanced detection and monitoring, 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 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.

Li-ion Tamer GEN 3 system provides the earliest detection of failing lithium-ion batteries (detection of battery electrolyte vapours), well in advance of smoke and conventional gas detectors. With early warning of the initial signs of failing lithium-ion batteries, proper mitigation steps can be taken to prevent progression to a catastrophic thermal runaway.

Li-ion Tamer Sensor Multi Output Solution (MOS) is a device that detects the initial venting of battery electrolyte solvent vapours (off-gassing phase) that occurs early in the failure mode of lithium-ion batteries. The early detection of such events allows proper mitigation steps to be taken to avoid a catastrophic thermal runaway failure. It is also capable of detecting hydrogen gas, which is generated during thermal runaway of lithium-ion batteries. The detection of hydrogen allows proper management of flammable gas accumulation to avoid explosive conditions.

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) 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.

Video Image Fire Detection

The Failsafe Thermography Detector (FTD) is a bi-spectral (IR & Visual) smart edge device that has been specifically designed for early warning heat-detection.

The thermography detectors provide fire detection solutions where traditional smoke/fire detectors cannot cope with high smoke and dust conditions as part of normal operating conditions.

Choose the Right Product for your Segment and Application

Vertical Market

Coverage	6,500 m²	3,345 m²	2,000 m²			2-pipe: 2,000 m²	1-pipe: 1,600 m²	1,000 m²	500 m²	250 m²			
Detection	UVEW	AEW	VEW	AVEW	IVEW	VEW	VEW	VEW	VEW		Beam	Gas	Video Image
Product	VEU	VEA	VEP-4	VES	VLI	FAAST FLEX		VEP-1	VLF		OSID	Li-ion Tamer	VIS-IR
IT and Communications	■		■	■				■	■	■		■	
Clean Room	■		■	■				■					
Highrise and Residential		■	■							■		■	
Manufacturing	■		■	■	■			■			■		■
Airport	■	■	■	■	■			■	■	■	■		
Railway	■	■	■	■	■			■	■	■	■		
Logistics / Warehouse	■		■	■	■	■	■	■			■	■	
Logistics / Cold Storage	■		■		■	■	■	■					
Gigafactories												■	
Battery Energy Storage Systems (BESS)												■	■
Solar/Wind			■		■			■				■	
Correctional Facilities		■		■		■	■		■	■			
Cultural and Heritage	■	■	■	■		■	■	■	■	■	■		
Power	■		■	■	■			■	■	■		■	■
Retail and Commercial		■	■	■		■	■	■	■	■	■	■	
Oil and Gas	■		■	■	■			■				■	
Sporting Venues	■		■	■				■			■		
Education		■	■	■		■	■	■			■	■	
Food/Drink Processing Plants													■
Waste Recycling	■		■		■			■					■
Mining	■		■		■			■					

Aplication	Coverage	6,500 m²	3,345 m²	2,000 m²			2-pipe: 2000m²	1-pipe: 1600m²	1000m²	500m²	250m²			
	Detection	UVEW	AEW	VEW	AVEW	IVEW	VEW	VEW	VEW	VEW		Beam	Gas	Video Image
	Product	VEU	VEA	VEP-4	VES	VLI	FAAST FLEX		VEP-1	VLF		OSID	Li-ion Tamer	VIS-IR
	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	Inudstrial Very Early Warning Smoke Detection
AEW	Addressable Early Warning Smoke Detection

VESDA Models Comparison Chart (International)

Features	VESDA-E					VESDA	VESDA Industrial Products
	VEU	VEP		VES	VEA	VLF 250/500	VLI
		VEP-1	VEP-4				
Pipes and area coverage							
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 (2,625 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 m² (69,965 sq ft) *	1,000 m² (10,760 sq ft)	2,000 m² (21,520 sq ft)	2.000 m² (21,520 sq ft)	3,345 m^2 (36,005 sq. ft)* across 40 sample holes	250/500 m² (2,690/5,380 sq ft)	2.000 m² (21,520 sq ft)
No. of Pipe Inlets	4	1	4	4	40 microbore tubes	1	4
Multiple Pipe Addressability	No	No		Up to 4 sectors	Up to 40	No	No
Sensitivity							
Min Fire 1 Threshold	0.001%obs/m (0.0003%obs/ft)	0.01%obs/m (0.0030%obs/ft)		0.01% obs/m (0.0030 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 - 6.575%obs/ft)	0.005-20%obs/m (0.0015% to 6.575% obs/ft)		0.005 - 20%obs/m (0.0015% to 6.575% obs/ft)	0.020 - 16%obs/m (0.006 - 5.17%obs/ft)	0.025 - 20%obs/m (0.008 - 6.575% obs/ft)	0.05% - 20.0% obs/m (0.015% - 6.575% obs/ft)
EN54-20 (Class A / B / C)							
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
Others							
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	8 (Day/Night)	8 (Day/Night)		32 (Day/Night)	8 (Day/Night)	8 (Day/Night)	8 (Day/Night)
Relay Outputs	7	7		12	7 (Expandable to 47)	3 (Expandable to 6)	5

Features	VESDA-E				VESDA	VESDA Industrial Products
	VEU	VEP		VES	VEA	VLF 250/500	VLI
		VEP-1	VEP-4				
On-board Memory (Max. Events)	20,000	20,000		20,000	20,000	18,000	18,000
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 connection to PC using VSC/VSM4	Programmed via USB/ Ethernet 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
VESDAnet™							
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

VESDA Models Comparison Chart (UL268 7th Edition)

Features	VESDA-E					VESDA
	VEU	VEP		VES	VEA	VLF-500
		VEP-1	VEP-4			
Pipes and area coverage						
Pipe Length (Linear)	400 m (1,312 ft)	95 m (312 ft)	280 m (919 ft)	280 m (919 ft)	40 x 100 m (40 x 328 ft)	50 m (164 ft)
Pipe Length (Branched)	800 m (2,625 ft)	130 m (427 ft)	470 m (1,542 ft)	560 m (1,837 ft)	N/A	60 m (197 ft)
Area Coverage	69,965 sq ft * (6,500 m²)	1,000 m² (10,760 sq ft)	2,000 m² (21,520 sq ft)	2.000 m² (21,520 sq ft)	21,520 sq. ft (2,000 m^2) across 40 sample holes	500 m² (5,380 sq ft)
No. of Pipe Inlets	4	1	4	4	40 microbore tubes	1
Multiple Pipe Addressability	No	No		Up to 4 sectors	Up to 40	No
Sensitivity						
Min Fire 1 Threshold	0.0003%obs/ft (0.001%obs/m)	0.01%obs/m (0.0030%obs/ft)		0.01% obs/m (0.0030 obs/ft)	1.6%obs/m (0.5% obs/ft)	0.025%obs/m (0.008% obs/ft)
Detection Range	0.001 - 20.0%obs/m (0.0003 - 6.575%obs/ft)	0.005-20%obs/m (0.0015% to 6.575% obs/ft)		0.005 - 20%obs/m (0.0015% to 6.575% obs/ft)	0.020 - 16%obs/m (0.006 - 5.17%obs/ft)	0.025 - 20%obs/m (0.008 - 6.575% obs/ft)
EN54-20 (Class A / B / C)						
Max. no of Holes	96	33	80	98 **	40 - 40***	16
Transport time (seconds)	70/90/110	60/90/110		60/90/90 **	40 - 90 (Tube length dependent)	90/90/90
Others						
Hazardous Area Approval (FM Class 1, Div 2, Groups A, B, C, D)	No	Yes		No	N/A	Yes
IP Rating	IP40	IP40		IP40	IP40	IP30
Two Stage Filtration	Yes	Yes		Yes	Yes	Yes
Total Number of Alarm Thresholds	8 (Day/Night)	8 (Day/Night)		32 (Day/Night)	8 (Day/Night)	8 (Day/Night)
Relay Outputs	7	7		12	7 (Expandable to 47)	3 (Expandable to 6)
On-board Memory (Max. Events)	20,000	20,000		20,000	20,000	18,000
AutoLearn™ (Smoke/Flow)	AutoLearn Smoke AutoLearn Flow	AutoLearn Smoke AutoLearn Flow		AutoLearn Smoke AutoLearn Flow	No	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

Features	VESDA-E					VESDA
	VEU	VEP		VES	VEA	VLF-500
		VEP-1	VEP-4			
Programming Tools **- On-board Programming module** **- Handheld Programmer** **- PC Software (VSC, VSM)**	Programmed via USB/ Ethernet connection to PC using VSC/VSM4	Programmed via USB/ Ethernet 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
StaX Expandability	Yes	Yes	Yes	Yes	Yes	No
VESDAnet™						
Max. No. of devices/ detectors per loop	200/100	200/100		200/100	200/100	200/100 (with VN Card)
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)
Computer-based Management via VSM	Yes	Yes		Yes	Yes	Yes
Remote Relay Modules **- 7 relay version** **- 12 relay version**	VER-A40-7 N/A	VER-A40-7 N/A		VER-A40-7 VER-A40-12	VER-A40-7 N/A	VRT-500 N/A
Compatible Remote Bargraph Displays **- Display, 7 relays** **- Display, 12 relays** **- Display, no relays**	VER-A10-7 N/A VER-A10-0	VER-A10-7 N/A VER-A10-0		VER-A10-7 VER-A10-12 VER-A10-0	VRT-200 N/A VRT-600	VRT-V00 N/A VRT-W00 (with VN Card)

* 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	8.5 mA Max. (Intl.) 38.5 mA (Conv.)	22 mA @ 15 VDC (Intl.) 54 mA @10.2 V (Conv.)	8 mA (31 mA alignment)
Voltage range	15-32 VDC (Intl.) 10.2 to 32 VDC (Conv.)	15-32 VDC (Intl.) 10.2 to 32 VDC (Conv.)	20-30 VDC

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

VESDA-E The Next Generation of VESDA Aspirating Smoke Detectors (ASDs)



Innovative Capabilities

Since pioneering ASD technology more than 30 years ago,VESDA has been recognized as the best in the world, protecting personnel, irreplaceable assets and mission critical infrastructure in the world's most iconic locations.

VESDA-E is the next-generation of ASD technology, featuring multiple innovative capabilities across the new portfolio that delivers a new level of customer experience:

- **VESDA Smoke+**, offers increased sensitivity – up to 15 times greater than VESDA VLP, at least three times better dust rejection, up to twice the longevity while maintaining consistent sensitivity over time and 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**, VESDA-E VEA introduces pinpoint addressability to deliver situational awareness to improve response time and efficiency for up to 40 locations.
- **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, 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% for non-addressable products and up to 60% for the point addressable products.

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 CMOS imaging, multi-directional light scattering and sophisticated algorithms for smoke detection and particle type characterization. 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 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 Product List

VESDA-E VEU	
	The VEU series of ASDs 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 TCO.
Ordering Codes	**Description**
VEU-A00	VESDA-E VEU with LEDs, Aluminium Enclosure
VEU-A00-CH	VESDA-E VEU with LEDs, Aluminium Enclosure, China
VEU-A10	VESDA-E VEU with 3.5” Display, Aluminium Enclosure
VEU-A10-CH	VESDA-E VEU with 3.5” Display, Aluminium Enclosure, China
Approvals: VdS, CE, UKCA, ActivFire, FM, NF, CCC, EN 54-20, ISO 7240-20 (Class C (100 holes), Class B (80 holes), Class A (80 holes))	
Dimensions: 350 x 225 x 135 mm (13.8 x 8.9 x 5.3 in)	
Weight: VEU-A00 - 5.3 kg (11.7 lbs), VEU-A10 - 5.3 kg (11.7 lbs)	
Area Coverage: 6,500 m² (69,965 ft²)*	

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

VESDA-E VEU (UL 268 7th Ed.)	
	The VEU series of ASDs 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 TCO.
Ordering Codes	**Description**
VEU-A00-UL	VESDA-E VEU with LEDs, Aluminium Enclosure, UL
VEU-A10-UL	VESDA-E VEU with 3.5” Display, Aluminium Enclosure, UL
VEU-A00-KR-UL	VESDA-E VEU with LEDs, Aluminium Enclosure, UL (Korea)
VEU-A10-KR-UL	VESDA-E VEU with 3.5” Display, Aluminium Enclosure, UL (Korea)
Approvals: UL 268 7th edition, ULC, CSFM, FM, FDA, FCC, RCM, KFI	
Dimensions: 350 x 225 x 135 mm (13.8 x 8.9 x 5.3 in)	
Weight: VEU-A00-UL - 5.3 kg (11.7 lbs), VEU-A10-UL - 5.3 kg (11.7 lbs)	
Area Coverage: 6,500 m² (69,965 ft²)*	

* 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
VEP-A00-1P	VESDA-E VEP with LEDs, 1 pipe, Plastic Enclosure
VEP-A00-1P-CH	VESDA-E VEP with LEDs, 1 pipe, Plastic Enclosure, China
VEP-A00-P	VESDA-E VEP with LEDs, 4 pipe, Plastic Enclosure
VEP-A00-P-CH	VESDA-E VEP with LEDs, 4 pipe, Plastic Enclosure, China
VEP-A10-P	VESDA-E VEP with 3.5” Display, 4 pipe, Plastic Enclosure
VEP-A10-P-CH	VESDA-E VEP with 3.5” Display, 4 pipe, Plastic Enclosure, China
Approvals: FM, ActivFire, CE, UKCA, VdS, NF, CCC, EN 54-20, ISO 7240-20	
Dimensions: 350 x 225 x 135 mm (13.8 x 8.9 x 5.3 in)	
Weight: 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)	
Area Coverage: VEP-A00-1P: 1,000 m² (10,760 ft²), VEP-A00-P and VEP-A10-P: 2,000 m² (21,520 ft²)	

VESDA-E VEP (UL 268 7th Ed.)



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 achieve consistent performance over their lifetime via absolute calibration.

Ordering Codes	Description
VEP-A00-1P-UL	VESDA-E VEP with LEDs, 1 pipe, Plastic Enclosure, UL
VEP-A00-P-UL	VESDA-E VEP with LEDs, 4 pipe, Plastic Enclosure, UL
VEP-A10-P-UL	VESDA-E VEP with 3.5” Display, 4 pipe, Plastic Enclosure, UL
VEP-A00-1P-KR-UL	VESDA-E VEP with LEDs, 1 pipe, Plastic Enclosure, UL (Korea)
VEP-A00-P-KR-UL	VESDA-E VEP with LEDs, 4 pipe, Plastic Enclosure, UL (Korea)
VEP-A10-P-KR-UL	VESDA-E VEP with 3.5” Display, 4 pipe, Plastic Enclosure, UL (Korea)
Approvals: UL 268 7th edition, ULC, CSFM, FM, FDA, FCC, RCM, KFI	
Dimensions: 350 x 225 x 135 mm (13.8 x 8.9 x 5.3 in)	
Weight: VEP-A00-1P-UL: 4.4 kg (9.7 lbs), VEP-A00-P-UL: 4.4 kg (9.7 lbs), VEP-A10-P-UL: 4.5 kg (9.9 lbs)	
Area Coverage: VEP-A00-1P-UL: 1,000 m² (10,760 ft²), VEP-A00-P-UL and VEP-A10-P-UL: 2,000 m² (21,520 ft²)	

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
VES-A00-P	VESDA-E VES with LEDs, Plastic Enclosure
VES-A00-P-CH	VESDA-E VES with LEDs, Plastic Enclosure, China
VES-A10-P	VESDA-E VES with 3.5" Display, Plastic Enclosure
VES-A10-P-CH	VESDA-E VES with 3.5" Display, Plastic Enclosure, China
Approvals: ActivFire, VdS, EN 54-20, ISO 7240-20, FM, CE, UKCA, CCC, NF	
Dimensions: 350 x 225 x 135 mm (13.8 x 8.9 x 5.3 in)	
Weight: VES-A00-P: 4.7 kg (10.4 lbs), VES-A10-P: 4.8 kg (10.6 lb)	
Area Coverage: 2,000 m² (21,520 ft²)	

VESDA-E VES (UL 268 7th Ed.)



The VESDA-E VES can identify and monitor smoke density by individual sampling pipe (sector) which allows a single zone to be divided into four separate sectors; for example, distinguishing between separate aisles within a data room. Sector addressability enables the user to respond to a potential fire event quickly by reducing the search area. The VESDA-E VES has four programable alarm thresholds (Alert, Action, Fire 1 and Fire 2) per pipe that allows flexible field application. After the detector identifies the first sector to reach the Alert threshold it continues to sample from all sectors to report real time status per sector via the intuitive touch screen display. Built on the Flair detection technology and years of application experience the VESDA-E VES detector delivers very early warning with the best in class dust rejection throughout its lifetime.

Ordering Codes	Description
VES-A00-P-UL	VESDA-E VES with LEDs, Plastic Enclosure, UL
VES-A10-P-UL	VESDA-E VES with 3.5" Display, Plastic Enclosure, UL
VES-A00-P-KR-UL	VESDA-E VES with LEDs, Plastic Enclosure, UL (Korea)
VES-A10-P-KR-UL	VESDA-E VES with 3.5" Display, Plastic Enclosure, UL (Korea)
Approvals: UL 268 7th edition, ULC, CSFM, FM, FDA, FCC, RCM, KFI	
Dimensions: 350 x 225 x 135 mm (13.8 x 8.9 x 5.3 in)	
Weight: VES-A00-P-UL: 4.7 kg (10.4 lbs), VES-A10-P-UL: 4.8 kg (10.6 lb)	
Area Coverage: 2,000 m² (21,520 ft²)	

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 TCO.

Ordering Codes	Description
VEA-040-A00	VESDA-E VEA-40 Detector with LEDs
VEA-040-A10	VESDA-E VEA-40 Detector with 3.5” Display
Approvals: FM, ActivFire, CE, UKCA, NF, VdS, EN 54-20, ISO 7240-20: Class A, B and C	
Dimensions: 352 x 336 x 135.5 mm (13.9 x 13.2 x 5.33 in)	
Weight: VEA-040-A00: 9.9 kg (21.8 lbs), VEA-040-A10: 10 kg (22.2 lbs)	
Area Coverage: 3,345 m² (36,005 ft²)	

* Not available in China.

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
VER-A40-40-STX	VESDA-E VEA 40-Relay Local StaX

Approvals:

- UL 268 7th edition
- CE
- UKCA
- EN 54-20
- ActivFire
- Other major agency approvals pending

Dimensions: 352.05 mm x 340.5 mm x 135.5 mm (13.9 in x 13.4 in x 5.3 in)

Weight: 5.1 kg (11.22 lbs)

* Not available in China.

VESDA-E Accessories List

VESDA-E VEA Accessories

Product 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
	VSP-979	VESDA-E VEA Microbore Tube Cutter

Product Image	Ordering Code	Description
	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
	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-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

Product Image	Ordering Code	Description
	VSP-1004	VESDA-E VEA 4mm to 4mm Right Angle Joiner, Pack of 10
	VSP-1005	VESDA-E VEA 4mm to 6mm SPL PT Tube Converter
	VSP-1006	VESDA-E VEA Volumetric Chamber

VESDA-E VEU/VEP/VES Accessories

Product Image	Ordering Code	Description
	VSP-955	VESDA-E VES Scanner Manifold
	VSP-955-04 *	
	VSP-956	VESDA-E VEP/VEU Flow Sensor Manifold
	VSP-956-04 *	
	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-964-03	VESDA-E Smoke Detection Chamber - MK3
	VSP-964-04 *	VESDA-E Smoke Detection Chamber - MK4
	VSP-965	VESDA-E Sampling Module
	VSP-966	VESDA-E VEU-A00 Front Cover - Aluminum - LEDs
	VSP-967	VESDA-E VEU-A10 Front Cover - Aluminum - LCD - 3.5" Display
	VSP-967-04 *	

Product Image	Ordering Code	Description
	VSP-968	VESDA-E VEP-A00-P/ VEP-A00-1P/ VES-A00-P Front Cover - Plastic - LEDs
	VSP-969	VESDA-E VEP-A10-P Front Cover - Plastic - LCD - 3.5" Display
	VSP-969-04 *	
	VSP-969-S	VESDA-E VES-A10-P Front Cover - Plastic - LCD - 3.5" Display
	VSP-969-04-S *	

* New spare parts for GA4 only.

VESDA-E Remote Accessories



The VESDA-E Remote Accessories are the next generation of ancillary devices designed to complement VESDA-E ASDs and provide primary reporting and remote monitoring of new and existing VESDA systems over VESDAnet. These remote modules are commonly used in large and restricted access areas to allow remote monitoring with added convenience and ease.

The remote modules consist of the following configurations:

- 3.5" Display with or without relays
- 7 or 12 Relays without Display
- VESDAnet, Ethernet and USB Connection

The remote modules are designed to be assembled, on site, onto a 19" subrack which accommodates up to 4 remote modules. The highly flexible subrack configuration is enabled by a modular ordering system for expedient out-of-box installation in the field.

Product Image	Ordering Code	Description
Remote Modules		
	VER-A10-0	Remote Module Display (No Relays)
	VER-A10-7	Remote Module Display (7 Relays)

Product Image	Ordering Code	Description
	VER-A10-12	Remote Module Display (12 Relays)
	VER-A30	Remote Module VESDAnet/Ethernet/USB (No Relays)
	VER-A40-7	Remote Module (7 Relays) only
	VER-A40-12	Remote Module (12 Relays) only
Subrack Modules		
	VEK-A10-0	Subrack Kit Display (No Relays)
	VEK-A10-7	Subrack Kit Display (7 Relays)
	VEK-A10-12	Subrack Kit Display (12 Relays)
	VEK-A30	Subrack Kit VESDAnet/Ethernet/USB (No Relays)
	VEK-A40-7	Subrack Kit (7 Relays)
	VEK-A40-12	Subrack Kit (12 Relays)
	VEK-0000	Subrack 19"
	VEK-0	Subrack Kit Blank Plate

Detector Enclosures

Product Name and Image	Ordering Code	Description
 Detector Enclosure	020-050-E	This IP66enclosure is built to accommodate either a VESDA-E VEU, VESDA-E VEP, VESDA-E VES or VESDA VLF detector. The enclosure has a hinged door for easy access for installation and maintenance which includes a glass window to view the onboard display. It includes predrilled holes for inlet and exhaust ports and cable entries so that installation of a detector is a simple process requiring minimum tools. Moreover the enclosure is supplied with pipe fitting to ensure that the IP66 integrity of the enclosure is maintained.

VESDA-E Demo Kits

Ordering Code	Description
VKT-855	VESDA-E VES Demo Kit

VESDA ASD



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).

Applications

- IT and Communications
- Highrise and Residential
- Manufacturing
- Airport
- Railway
- Car Parks (underground)
- Logistics/ Warehouse
- Logistics/ Cold Storage
- Correctional Facilities
- Cultural and Heritage
- Power Generation
- Control/Switch Rooms
- Retail and Commercial
- Oil and Gas
- Waste Recycling
- Mining

VESDA Product List

VESDA VLI



The VESDA VLI is an industry first early warning ASD system, designed to protect industrial applications up to 2.000 m² (21.520 ft²). The VLI detector combines a patented fail-safe Intelligent Filter with Clean Air Zero and clean-air barrier for optics protection complementing absolute detection and providing longer detection chamber life all enclosed in a robust IP66-rated enclosure.

Ordering Codes	Description
VLI-880	VESDA VLI Detector
VLI-885	VESDA VLI with VESDAnet
Approvals: FM, ActivFire, CE, UKCA, VdS, LPCB, NF, SIL 2 as per IEC 61508, EN 54-20 (Class A (24 holes), Class B (28 holes), Class C (60 holes))	
Dimensions: 426.5 x 316.5 x 180 mm (16.8 x 12.5 x 7.1 in)	
Weight: 6.035 kg (13.3 lbs)	
Area Coverage: 2.000 m² (21.520 ft²)	

VESDA VLF-250



A very early warning smoke detector designed to protect small, business-critical environments of less than 250 m² (2,690 ft²).

Ordering Codes	Description
VLF-250-01	VESDA VLF. European language set. International display labels
VLF-250-02	VESDA VLF. English + Asian language set. International display labels
Approvals: CCC, FM Class I Div II, ActivFire (ISO/AS 7240-20), CE, UKCA, LPCB, VdS, NF, EN 54-20	
Dimensions: 256 x 183 x 92 mm (10 x 7 x 3 in)	
Weight: 2 kg (4.4 lbs)	
Area Coverage: 250 m² (2,690 ft²)	

VESDA VLF-500



A very early warning smoke detector designed to protect small, business-critical environments of less than 500 m² (5,380 ft²)

Ordering Codes	Description
VLF-500-01	VESDA VLF. European language set. International display labels
VLF-500-02	VESDA VLF. English + Asian language set. International display labels
Approvals: CCC, FM Class I Div II, ActivFire (ISO/AS 7240-20), CE, UKCA, LPCB, VdS, NF, EN 54-20	
Dimensions: 256 x 183 x 92 mm (10 x 7 x 3 in)	
Weight: 2 kg (4.4 lbs)	
Area Coverage: 500 m² (5,380 ft²)	

VESDA VLP - Only for China



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).

All detectors include a head termination card with 7 relays (HTC7) and a socket.

Ordering Codes

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

VLP

X		X		X		X	
0	Blank plate	0	Blank plate	0	Blank plate	0	Standard detector orientation
4	FOK: Fire 1 Alarm and OK (FOK) LEDs	1	Programmer mounted in the middle	1	Programmer mounted in the far right position	1	Inverted Detector Orientation
		2	Display mounted in the middle	2	Display mounted in the far right position		

Standard ordering codes:

VLP-400-CH	VLP detector only enclosure with three blank plates. The plate in the far left position includes Fire 1 Alarm, Power and Fault LEDs. Chinese display labels.
VLP-400-CH-01	VLP detector only enclosure with three blank plates. The plate in the far left position includes Fire 1 Alarm, Power and Fault LEDs. Chinese display labels.

Note: Not all combinations can be ordered.

Approvals: CCC, FM

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 m² (21.520 ft²)

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.

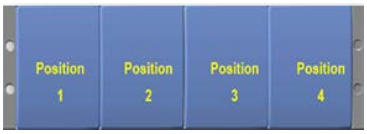
* Only available for China.

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	Description
 Detector Enclosure	020-050-E	The 020-050-E is a specific version that is built to complement the VESDA range of detectors, it accommodates either a VESDA-E VEU, VESDA-E VEP, VESDA-E VES or VESDA VLF detector.

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 (Code 2-1-0-0): 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 (Code 4-4-2-3): 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.

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

VESDAnet and Relay Cards

Product Image	Ordering Code	Description
	VIC-010	VESDAnet Interface Card (VIC) - a simple interface card for the range of VESDA VLF smoke detectors. It provides seamless VESDAnet communication from the detector to other VESDAnet devices, including configuration and monitoring tools.
	VIC-020	VESDA VLF Multi-function Control Card (MCC) for the range of VESDA VLF smoke detectors. It provides additional 2 relays and 1 General Purpose Input (GPI).
	VIC-030 *	VESDA VLF MCC with Monitored Powered Output (MPO) for the range of VESDA VLF smoke detectors. It provides all the features of the VIC-020 with an additional Relay which can be programmed as an MPO.

* Not approved for UL or ULC installations.

Programming Options



The 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-0300	Open Protocol Peer to Peer HLI. RS232 Interface for connection to a BMS or Fire Panel
	VHX-0310	Open Protocol Master - Slave HLI. 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 buitl-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

* Not available in China.

Spare Parts/Modules

Product Image	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 assembly
	VSP-007	Remote Termination Card No Relays (RTC0)
	VSP-008	Remote Termination Card 7 Relays (RCT7)
	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-018	Filter Switch
	VSP-019	Filter Cover
	VSP-020	VLP and VLS Screw Covers - Pack of 2
	VSP-021	Metric to Imperial Pipe Adapters, pack of 4

Product Image	Part Number	Description
	VSP-022	Mounting box detector
	VSP-023 *	VLC VN front cover
	VSP-025	Filter Cartridge, pack of 20
	VSP-028 *	VESDA VLP/VESDA VLS Mounting Bracket
	VSP-100 *	Blank Plate with FOK LEDs and Logo
	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-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-511	VESDAnet RS-485 15-way cable
	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)

* Only available for China.

FAAST FLEX ASD



Description

Conventional FAAST FLEX

The FLEX Series is part of the Fire Alarm Aspiration Sensing Technology® (FAAST) family. FAAST FLEX provides consistent detection with minimum nuisance alarms to reduce operational costs enabled by improved detection chamber design. The system continuously draws air from the monitored environment through a series of sampling holes to monitor the environment for smoke particulate.

The Conventional FAAST FLEX has two channel capability with two high sensitivity smoke sensors in separate chambers (one sensor for each channel).

How it works

Air is drawn into the FAAST FLEX through a network of air sampling pipes by speed adjustable aspirator. Each pipe inlet has an airflow sensor that monitors airflow changes in the pipe. Inside the FAAST FLEX, a sample of air is filtered and passed into the detection chamber and analysed for the presence of very small amounts of smoke. Air is exhausted from the FAAST FLEX and may be vented back into the protected zone.

Detection Technology

The FAAST FLEX detection technology a LED based light scattering technology. The technology offers high sensitivity IR LED and high gain IR receiver in addition to dual stage mesh filtration for removing dust particles and lint from air sample as well as preventing foreign objects from entering the exhaust.

Applications

- Warehouse / Logistics (small to medium)
- Cold Storage and Refrigerated Facilities
- Elevator Shafts
- Ceiling and Underfloor Voids
- Transformer, Electrical and Generator Rooms
- Rest Rooms

FAAST FLEX Products List

Conventional FAAST FLEX



The FAAST FLEX is an ASD that provides early warning detection using a dedicated high sensitivity smoke sensor. The FAAST FLEX is available as a one channel or two channel detector, Each sensing channel consists of an inlet, a metallic filter, a sensing element and a flow monitoring system. The product has a single aspirator and a single exhaust outlet. The FAAST FLEX is powered by an external 24 VDC power supply. Front panel LEDs indicate power, fault, and alarm status, and fault relays are activated in normal operation, and open in the event of a fault to notify monitoring systems. One GPI is also provided.

The FAAST FLEX is designed to protect an area up to 1600m² for 1 channel models and 2000 m² for two channel models. The product is designed to be compliant with EN54-20 Class A, B, and C sensitivity requirements.

Ordering Codes	Description
FLX-010	FAAST FLEX 1-pipe Stand-alone
FLX-010-CH	FAAST FLEX1-pipe Stand-alone, China
FLX-020	FAAST FLEX 2-pipe Stand-alone
FLX-020-CH	FAAST FLEX 2-pipe Stand-alone, China
FLX-SP-01	FAAST FLEX Sensing Module
FLX-SP-02	FAAST FLEX Metal Filter, Pack of 6
FLX-SP-03-EN	FAAST FLEX Front Cover, EN
FLX-SP-03-CH	FAAST FLEX Front Cover, China
FLX-SP-04	FAAST FLEX Aspirator
FLX-SP-05-EN	FAAST FLEX Intenal Cover Set, EN
FLX-SP-05-CH	FAAST FLEX Intenal Cover Set, China
FLX-SP-06	FAAST FLEX Adapter Set

Approvals: VdS, EN 54-20, ISO 7240:20, CE, NF, CCC, ActivFire, IFT: HOXTFL23 – 13169, PBST, FCC, RED, ANATEL, RAMATEL, BOSEC, KFI, Taiwan Fire Marshal

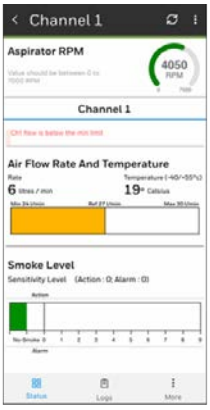
Dimensions: 205mm x 280mm x 80.5mm (W x H x D)

Weight: 1.7 kg (dual channel)

Area Coverage:

- Single Chamber: 1,600m² (17,200 sq.ft)
- Dual Chamber: 2,000m² (21,527 sq.ft)

FAAST FLEX Software

Software	Description
 Conventional FAAST FLEX Bluetooth App (Honeywell SmartConfig)	The SmartConfig app is a mobile app that can be used to connect and interact with the Conventional FAAST FLEX detector for configuration, monitoring and general operation with minimal interaction with the detector. **Ordering Info**: Available for download from: • **Google Play Store**: Honeywell SmartConfig • **Apple App Store**: Honeywell SmartConfig
 FAAST FLEX Firmware Update Complier	The Firmware Update Complier is a tool designed to simplify the process of upgrading the FAAST FLEX detector's firmware. This tool is a portable application that does not require installation and is equipped with the latest firmware version available for FAAST FLEX. **Ordering Info**: Available for download from www.xtralis.com.

ICAM Accessories List

Product Image	Part Number	Description
	ISP-405-00	IAS/ILS Aspirator (non-EN)
	ISP-405-01	IAS/ILS Aspirator, EN
	ISP-406	IAS/ILS Cover removal tool
	ISP-407	IAS/ILS Corner Studs (pack of 4)

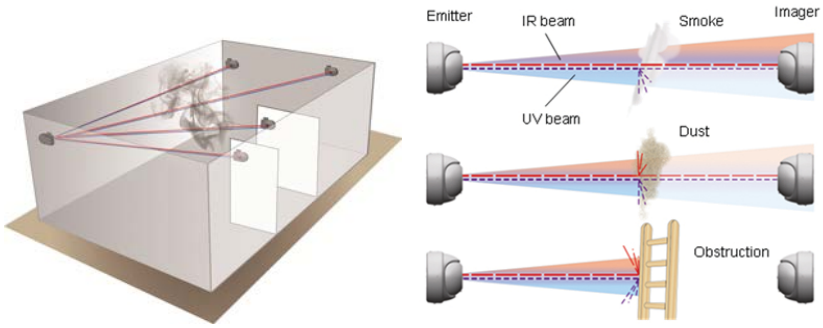
OSID Open-Area Smoke Imaging Detection



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.

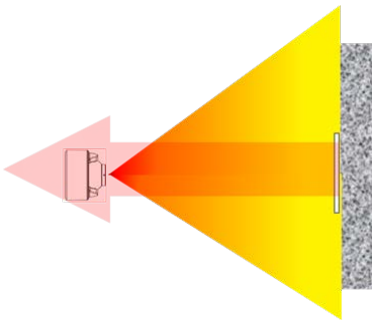
True spatial detection



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

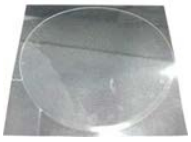
OSID Product List

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**
OSI-10	Imager - 7º coverage
OSI-90	Imager - 80º coverage
OSE-SP-01	Emitter - Alkaline Battery
OSE-SPW	Emitter - Standard Power, Wired
OSE-HPW	Emitter - High Power, Wired
OSE-HP-01	Emitter - High Power, Alkaline Battery
Approvals: UL, ULC, FM, CSFM, FCC, FDA, CCCF, ActivFire, VdS, NF-SSI (AFNOR), BOSEC, CE - CPR and EMC, UKCA	
Dimensions: 208 x 136 x 96 mm (8.19 x 5.35 x 3.78 in.)	
Weight: Imager: 610 g., Emitter (battery powered): 1.2 kg, Emitter (wired): 535 g	

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**
OSI-RE	Conventional imaging smoke beam smoke detector including reflector
OSI-RC	Conventional imaging smoke beam smoke detector including reflector - China
Approvals: UL, ULC, FM, CCC	
Dimensions: 152.4 x 254 x 114.3 mm (6 x 10 x 4.5 in.)	
Weight: 1.12 kg (2.48 lbs)	

OSID Accessories List

OSID-DE Accessories

Product 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 (Contains one handle and two alignment tool shafts; for OSID-DE and OSID-R)
	OSID-WG	Wire Guard for Imager and Emitter
	OSE-RBA	Spare alkaline battery pack for Emitter units
	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
	RTS151KEY	Imager Reset Station Flush Mount

Product Image	Ordering Code	Description
	RTS151 KIT	Imager Reset Station Surface Mount

OSID-R Accessories

Product Image	Ordering Code	Description
	OSP-002	Laser Alignment tool (Contains one handle and two alignment tool shafts; for OSID-DE and OSID-R)
	OSP-004	Test filter - 10 pack
	RTS151KEY	Test and reset station for flush mount
	RTS151 KIT	Test and reset station for surface mount
	BEAMHKR	Heater kit for the reflector
	6500-MMK	Multi–mount accessory for ceiling or wall mounting with additional mounting adjustment
	OSI-RWG	Wire guard for OSID-R range detectors

OSID-DE Software

Software	Description
 OSID-DE Diagnostic Tool	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. **Ordering Info:** OSID-DE Diagnostic Tool is available for download from www.xtralis.com.
 OSID-DE Selection Assistant	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. **Ordering Info:** Available for download from www.xtralis.com.

Aspirating Smoke Detection Combined with Gas Monitoring



ASD with Gas Detection and Environmental Monitoring

As the world's leading manufacturer of ASD solutions, Xtralis has introduced the VESDA Sensepoint XCL gas detector that connects to Xtralis ASD systems to deliver superior gas detection via multiple hole (multi-point) sampling.

VESDA Sensepoint XCL:

- 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
- Conditions the air to remove dirt, particulates, moisture, poisonous agents, and cross-interference gases
- Suitable for harsh environments
- Provides non-intrusive detection for aesthetics or to prevent vandalism
- Enables centralized monitoring and communication with building systems for real-time awareness
- Easily integrates with Fire Alarm Control Panel (FACP)/ PLCs/ HVAC/ BMS
- VSC and VSM4 integration for remote access to detectors (Modbus version) operating status

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 contaminates 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

How VESDA Sensepoint 301C Gas Controller and VESDA Sensepoint 301R Relay Module X8 Works

The VESDA Sensepoint 301C Gas Controller enables centralised configuration and monitoring of VESDA Sensepoint XCL – Large & Micro Bore (Modbus) gas detectors.

The controller connects up to 96 VESDA Sensepoint XCL (Modbus version) detectors and provides 4 programmable relays (alarms, faults) for installations requiring additional relay outputs – additional 16 relay outputs can be provided through the VESDA Sensepoint 301R X8 Relay Module.

VESDA Sensepoint XCL Products List

VESDA Sensepoint XCL- Micro Bore ASD System



Xtralis the manufacturer of the market leading VESDA 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
XCL-VEA-CO-RA	VESDA Sensepoint XCL CO 300ppm 4-20mA Relay for VEA
XCL-VEA-CO-RM	VESDA Sensepoint XCL CO 300ppm Modbus Relay for VEA
XCL-VEA-CH4-RA	VESDA Sensepoint XCL CH_4 0-100% LEL 4-20mA Relay for VEA
XCL-VEA-CH4-RM	VESDA Sensepoint XCL CH_4 0-100% LEL Modbus Relay for VEA
XCL-VEA-H2-RA	VESDA Sensepoint XCL H_2 1000ppm 4-20mA Relay for VEA
XCL-VEA-H2-RM	VESDA Sensepoint XCL H_2 1000ppm Modbus Relay for VEA
XCL-VEA-CO2VV-RA	VESDA Sensepoint XCL CO_2 5% v/v 4-20mA Relay for VEA
XCL-VEA-CO2VV-RM	VESDA Sensepoint XCL CO_2 5% v/v Modbus Relay for VEA
XCL-VEA-CO2PP-RA	VESDA Sensepoint XCL CO_2 5000ppm 4-20mA Relay for VEA
XCL-VEA-CO2PP-RM	VESDA Sensepoint XCL CO_2 5000ppm Modbus Relay for VEA
XCL-VEA-CO-RA-5	5 x VESDA Sensepoint XCL CO 300ppm 4-20mA Relay for VEA
XCL-VEA-CH4-RA-5	5 x VESDA Sensepoint XCL CH_4 0-100% LEL 4-20mA Relay for VEA
XCL-VEA-H2-RA-5	5 x VESDA Sensepoint XCL H_2 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_4), 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_4 0-100% LEL
XCL-XRL-SC-H2	VESDA Sensepoint XCL/XRL Replacement Sensor – H_2 1000ppm
XCL-SC-CO2VV	VESDA Sensepoint XCL Replacement Sensor - CO_2 5% v/v
XCL-SC-CO2PP	VESDA Sensepoint XCL Replacement Sensor - CO_2 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
XCL-LB-CH4-RA	Flammable (CAT) 20-100% LEL 4-20mA Relay
XCL-LB-CH4-RM	Flammable (CAT) 20-100% LEL Modbus Relay
XCL-LB-O2-RA	Oxygen 25.0% v/v (Fixed) 4-20mA Relay
XCL-LB-O2-RM	Oxygen 25.0% v/v (Fixed) Modbus Relay
XCL-LB-CO-RA	Carbon Monoxide 50 to 1000 ppm 4-20mA Relay
XCL-LB-CO-RM	Carbon Monoxide 50 to 1000 ppm Modbus Relay
XCL-LB-H2-RA	Hydrogen 1000ppm (Fixed) 4-20mA Relay
XCL-LB-H2-RM	Hydrogen 1000ppm (Fixed) Modbus Relay
XCL-LB-H2S-RA	Hydrogen Sulphide 10 to 50 ppm 4-20mA Relay
XCL-LB-H2S-RM	Hydrogen Sulphide 10 to 50 ppm Modbus Relay
XCL-LB-NO2-RA	Nitrogen Dioxide 5 to 50 ppm 4-20mA Relay
XCL-LB-NO2-RM	Nitrogen Dioxide 5 to 50 ppm Modbus Relay
XCL-LB-NH3-RA	Ammonia 50 to 200 ppm 4-20mA Relay
XCL-LB-NH3-RM	Ammonia 50 to 200 ppm Modbus Relay
XCL-LB-CO2PP-RA	Carbon Dioxide 1000 to 5000 ppm 4-20mA Relay
XCL-LB-CO2PP-RM	Carbon Dioxide 1000 to 5000 ppm Modbus Relay
XCL-LB-CO2VV-RA	Carbon Dioxide 1.0 to 5.0% v/v 4-20mA Relay
XCL-LB-CO2VV-RM	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_4), 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_3, CO_2 – pack of 10
XCL-LB-FLT-2	Filter CO, O_2, H_2S, NO_2, H_2 – pack of 10
XCL-LB-COV-1	Sensor Cover CAT, NH_3, CO_2
XCL-LB-COV-2	Sensor Cover CO, O_2, H_2S, NO_2, H_2
XCL-SC-O2	Replacement Sensor - O_2 25% v/v
XCL-SC-NH3	Replacement Sensor - NH_3 50-200 ppm
XCL-SC-NO2	Replacement Sensor - NO_2 5-50 ppm
XCL-SC-H2S	Replacement Sensor - H_2S 10-50 ppm
XCL-XRL-SC-H2	Replacement Sensor - H_2 1000 ppm
XCL-XRL-SC-CO	Replacement Sensor - CO 50-1000 ppm
XCL-SC-CO2VV	Replacement Sensor - CO_2 1.0-5.0% v/v
XCL-SC-CO2PP	Replacement Sensor - CO_2 1000-5000 ppm
XCL-SC-CH4	Replacement Sensor - CH_4 20-100% LEL

VESDA Sensepoint Gas Controller and Relay Module Products List

VESDA Sensepoint 301C Gas Controller



The VESDA Sensepoint 301C Gas Controller enables centralised configuration and continuous monitoring of VESDA Sensepoint XCL – Large & Micro Bore (Modbus) gas detectors.

The controller uses an addressable RS-485 communication protocol, (daisy chain wiring) that connects up to 96 VESDA Sensepoint XCL (Modbus version) detectors, it provides 4 programmable relays (alarms, faults) for VESDA Sensepoint XCL gas detector installations requiring additional relay outputs – additional 16 relay outputs can be provided through the (optional) VESDA Sensepoint 301R Relay Module x8.

The controller offers automatic sensor identification and unique zoning capabilities permitting the grouping of multiple VESDA Sensepoint XCL detectors gas readings giving the flexibility to match the needs of different installations.

Ordering Codes	Description
XCL-301C-CTR	VESDA Sensepoint 301C Gas Controller

Approvals:

- ANSI/UL 61010-1
- CAN/CSA C22.2 No. 61010-1.
- IEC 61010-1:2010
- ETL 116662
- California Title 24, Part 6, and associated administrative regulations In Part 1

Dimensions: 280 x 203 x 70 mm (11 x 8 x 2.8 in)

Weight: 1.1 kg (2.4 lbs)

VESDA Sensepoint 301R Relay Module



The VESDA Sensepoint 301R Relay Module X8 connects to the daisy chain network installation (RS-485) and acts as an output to the VESDA Sensepoint 301C Gas Controller.

It provides an extra 8 relays at programmable alarm levels.

Ordering Codes	Description
XCL-301R-RMD	VESDA Sensepoint 301R Relay Module X8

Approvals:

- UL STD. 1244
- AN/CSA C22.2 No 205

Dimensions: 244 x 203 x 57 mm (9.5 x .8 x 2.5 in)

Weight: 1.09 k g (2.4 lb)

Li-ion Tamer GEN 3 Lithium Ion Off-Gas Detection System



The Li-ion Tamer GEN 3 is a device that detects the venting of battery electrolyte solvent vapours (off-gassing phase) that occurs early in the failure mode of lithium-ion batteries (LIB). The early detection of this event allows proper mitigation steps to be taken to avoid a catastrophic thermal runaway failure.

The Li-ion Tamer GEN 3 system is designed to be easy to install and configure, consisting of several components: (i) sensors, (ii) hub, (iii) power switch, (iv) network switch, (v) controller.

- Each sensing node comprises an off-gas sensor with advanced algorithms making it acutely sensitive to detecting battery electrolyte vapours (off-gassing compounds), does not require calibration, is compatible with all LIB form factors and chemistries, and has a lifetime comparable to a typical LIB system. The sensing node also includes temperature and humidity sensors for environmental monitoring.
- Sensing nodes are networked by the hubs and switches to the controller, which is the central point for managing and monitoring the entire system. The controller has relays and Modbus TCP/IP outputs that connect to the BMS or other control systems.

Applications

- Stationary Battery Energy Storage
  - Containerized / modular systems
  - Built environment systems
- Data Centers
  - Battery UPS
- Manufacturing - Gigafactories
  - Assembly lines
  - Battery formation process
  - Cell aging and EOL testing
  - Module or pack assembly
- Automotive
  - Vehicle test facilities
- Laboratory Safety
  - Environmental chambers
  - Battery abuse testing
- Shipping and Storage
  - Post-manufacturing storage
  - Battery-powered equipment

Li-ion Tamer Sensor MOS



The Li-ion Tamer Sensor MOS is a device that detects hydrogen and carbon monoxide gases, which are generated during thermal runaway of lithium-ion batteries. The detection of these gases allows proper management of flammable gas accumulation to avoid explosive conditions. It is also capable of detecting the initial venting of battery electrolyte solvent vapours (off-gassing phase) that occurs early in the failure mode of lithium-ion batteries. The early detection of such events allows proper mitigation steps to be taken to avoid a catastrophic thermal runaway failure.

The Li-ion Tamer Sensor MOS is designed to be plug-and-play, easy to install and consists of two primary components, (1) off-gas sensor, (2) interface module.

1. Off-gas sensor comprises on-board detection algorithms making it acutely sensitive to lithium-ion battery electrolyte solvent vapours, does not require calibration, is compatible with all forms of lithium-ion battery form factors and chemistries and has a lifetime comparable to a typical lithium-ion battery system.
2. Off-gas sensor connects to the interface module providing 3 relay outputs and Modbus/ CANBus serial outputs that can be used to electrically isolate the battery system and activate the ventilation system.

Features

- Early warning of lithium-ion battery failures
- Enable thermal runaway prevention with proper mitigation actions
- Single cell failure detection without electrical or mechanical contact of cells
- Extended product lifetime
- Calibration-free product (only requires bump test)
- Highly reliable output signal
- Low power consumption
- Cost Effective solution for modular BESS
- Compatible with all lithium-ion battery form factors and chemistries
- Easy installation
- Independent and redundant perspective on battery health
- Reduction/removal of false positive signals
- Support 2 alarm relay outputs and 1 fault relay output
- Configurable communication protocols including Relay outputs and Modbus/Canbus selection communication

Applications

- Stationary Battery Energy Storage
  - Small footprint BESS installations (modular cubes, single battery racks, etc.)
- Data Centers
  - Battery UPS
- Manufacturing
  - Assembly lines
  - Battery formation process
  - Cell aging and EOL testing
  - Module or pack assembly
- Automotive
  - Vehicle test facilities
- Laboratory Safety
  - Environmental chambers
  - Battery abuse testing
- Shipping and Storage
  - Post-manufacturing storage
  - Battery-powered equipment

Li-ion Tamer Product List

Li-ion Tamer GEN 3			
	The Li-ion Tamer GEN 3 system is a safety product that has been developed for the protection of lithium-ion batteries. The key to Li-ion Tamer's GEN 3 value proposition is the earliest warning of battery failures by monitoring for single cell off-gas events and the scalable deployment of gas sensors for cost effective protection of battery installations. Additionally, temperature and relative humidity measurements provide environmental sensing at every sensing node.		
Product Image	**Ordering Codes**	**Item**	**Description**
	***LT-SEN-M3***	Monitoring Sensor, GEN 3	Mounted on/near Li-ion battery rack to detect off-gas from cells
	***LT-SEN-R3***	Reference Sensor, GEN 3	Mounted around the ESS
	***LT-ACC-HUB-PWR***	Hub, Direct Power, GEN 3	Originates daisy-chain connection with sensors, powered directly with 12 VDC terminal block, includes terminator
	***LT-ACC-HUB-POE***	Hub, PoE, GEN 3	Originates daisy-chain connection with sensors, powered via PoE, includes terminators
	LT-ACC-HUB-MKT	Hub DIN-Rail Mount Kit	DIN rail mounting kit for the hubs
	***LT-CTR-SML***	Controller, GEN 3	Controller that aggregates up to 100 sensor signals and generates integrate-able outputs.
	LT-CTR-SML-DMK	Controller DIN-Mount Kit	DIN rail mounting kit for controller
	LT-ACC-POE-4	Ethernet Switch, PoE, 4 ports	PoE Ethernet switch for powering and transmitting signals from the Hub, PoE
	LT-ACC-POE-24	Ethernet Switch, PoE, 24 ports	
	***LT-ACC-POE-24-ADR***	PoE Switch 24 port, IEC Power Adapter	IEC plug to screw terminal adapter for the Ethernet Switch, PoE, 24 port

	***LT-ACC-ETS-5***	Ethernet Switch, 5 Ports	Ethernet switch for transmitting TCP/IP signals between system components
	***LT-ACC-ETS-8***	Ethernet Switch, 8 Ports	
	***LT-ACC-ETS-16***	Ethernet Switch, 16 Ports	Ethernet switch for transmitting TCP/IP signals between system components
	***LT-ACC-ERO-16***	Ethernet Relay Module, 16 Ports	Ethernet relay module with 16 SPDT Form C Relay terminals
	***LT-ACC-ERO-MKT***	Relay Output DIN-Rail Mount Kit	DIN rail mounting kit for the relay module
	***LT-ACC-PWR-12***	Power Supply, 12VDC	Power supply for system with 12VDC
	LT-ACC-PWR-48	Power Supply, 48VDC	Power supply for system with 48VDC
	***LT-ACC-SAK***	Spare Kit - 4xTerminator 1xScrew Terminal Adapter	Spare Kit – 4x terminators 1x barrel plug to screw terminal adapter
	***LT-ACC-NCL-3***	3 ft (~1 m) Network Cable	Shielded RJ45 connector cable used to connect sensors, hubs, ethernet switches, and controllers
	LT-ACC-NCL-5	5 ft (1.5 m) Network Cable	
	LT-ACC-NCL-10	10 ft (3 m) Network Cable	
	LT-ACC-NCL-25	25 ft (7.6 m) Network Cable	
	LT-ACC-NCL-50	50 ft (15 m) Network Cable	
	LT-ACC-NCL-100	100 ft (30 m) Network Cable	
	***LT-ACC-TST***	DEC Bump Test Bottle	A plastic bottle with a small amount of DEC for use during bump testing of sensors

	***LT-DKT***	Demo Kit, GEN 3	Case comprising representative system components
Approvals: • FM 6540 Approved for Battery Electrolyte Solvent Vapours (ex. DEC, DMC, EMC) • ETL listed to UL 61010 and CSA 22.2 NO. 61010 for product safety • EN 61326-1:2013 for EU Directive (2014/30/EU) • RoHS 3 EU 2015/863, WEEE and REACH compliant • UKCA • FCC			
Controller's Dimensions: 115mm x 82mm x 34mm			

Li-ion Tamer Sensor MOS



The Li-ion Tamer Sensor MOS is a device that detects the initial venting of battery electrolyte solvent vapours (off-gassing phase) that occurs early in the failure mode of lithium-ion batteries. The early detection of such events allows proper mitigation steps to be taken to avoid a catastrophic thermal runaway failure. It is also capable of detecting hydrogen gas, which is generated during thermal runaway of lithium-ion batteries. The detection of hydrogen allows proper management of flammable gas accumulation to avoid explosive conditions.

Product Image	Ordering Codes	Description
	***LT-SEN-MOS***	Li-ion Tamer Sensor MOS (Comprises LT-SEN-M and LT-SEN-IM-UL)
	LT-SEN-MOS-C49	Li-ion Tamer Sensor MOS-C49 (Comprises LT-SEN-M-C49 and LT-SEN-IM-UL)
	***LT-SEN-M***	Li-ion Tamer Gen 2+ Sensor
	LT-SEN-M-C49	Li-ion Tamer Gen 2+ Sensor-C49
	***LT-SEN-IM-UL***	Li-ion Tamer Interface Module UL

Approvals - Off-Gas Sensor:

- UL 2075 and ULC 588 Recognized for Hydrogen (H_2) detection
- UL 2075 and ULC 588 Recognized for Carbon Monoxide (CO) detection*
- UL 2075 and ULC 588 Recognized for Battery Electrolyte Solvent Vapour detection
  Includes Diethyl Carbonate (DEC), Dimethyl Carbonate (DMC), and Ethyl Methyl Carbonate (EMC)
- FM 6540 Approved for Battery Electrolyte Solvent Vapours (ex. DEC, DMC, EMC)**
- 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)
- CE
- UKCA
- FCC
- CSFM (according to UL 2075 for H_2)

Approvals - Interface Module:

- Certification of fire alarm system module UL864 10th
- ULC S527
- FM 6540
- Safety UL61010-1
- RoHS EN50581-2002
- EMI EN55011-2010
- EMC EN61326-1-2021

Interface Module's Dimensions: 140mm (L) x 85mm (W) x 34mm (H)

* Available on selected models.

** Model (LT-SEN-M) only.

Li-ion Tamer Software

Software	Description
 Li-ion Tamer Interface Module Config Software	Setup and commissioning of the Li-ion Tamer Sensor MOS is done by the Interface Module configuration tool “Li-ion Tamer Interface Module Config Software”. With the configuration tool, the user can read the current status of the Li-ion Tamer Sensor MOS Firmware version, Modbus address and Alarm relay configuration. The user also has the option to change the address of the Interface Module in a network, and change the configuration of the Alarm relay from its default settings. This Config Software is available for download from www.xtralis.com.

Xtralis VIS-IR Failsafe Bi-Spectral Thermography Detector



The Failsafe Thermography Detector (FTD) is a bi-spectral (IR & Visual) smart edge device that has been specifically designed for early warning heat-detection. It can directly communicate with FACP for Pre-Alarm, Alarm and Fault conditions. The thermography detectors provide fire detection solutions where traditional smoke/fire detectors cannot cope with high smoke and dust conditions as part of normal operating conditions. Their applications target the critical infrastructures and challenging environments such as: waste recycling, tunnels, machine and process supervision, power stations, etc.

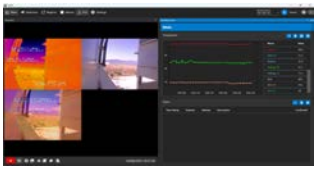
Applications

- Waste management and recycling sites
- Food and drink processing plants
- Industrial sites
- Transportation and other tunnels

Xtralis VIS-IR Products List

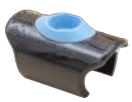
Xtralis VIS-IR Failsafe Bi-Spectral Thermography Detector	
	Xtralis VIS-IR is a Failsafe bi-spectral standalone smart edge detector that has been specifically designed for early warning heat-detection with immediate visual verification using ViSM (VIS-IR Software Management tool). Xtralis VIS-IR communicates directly with any industry standard FACP using on-board Pre-Alarm, Alarm and Fault relays avoiding the ever-present failure risk associated with traditional smoke/fire detectors that cannot perform detection on the edge, and cannot cope with high smoke and dust conditions as part of normal operating conditions.
Ordering Codes	**Description**
FTD-2216-S	Failsafe Bi-Spectral Thermography Detector FOV 22°x16°, Shutter
FTD-4231-S	Failsafe Bi-Spectral Thermography Detector FOV 42°x31°, Shutter
FTD-8865-S	Failsafe Bi-Spectral Thermography Detector FOV 88°x65°, Shutter
FTD-BB-1	Black Body for Maintenance Purposes
Approvals: • CNPP • EMC EN61000-6-1 (2017) • EMC EN61000-6-3 (2007) / A1 (2001) /AC (2012) • EMC EN 50130-4 (2011) / A1 (2014) • UNE-EN 62368-1:2014 + AC1:2015 + AC2:2015 • EN 62368-1:2014+AC:2015+AC:2017 +A11:2017 • IEC 62368-1:2014+COR1:2015+COR2015 • POSE000_18 • FCC Rules and Regulations CFR 47, Part 15	
Weight: 1.75 kg	

Xtralis VIS-IR Software

Software	Description
 VIS-IR Software Management (ViSM)	Xtralis ViSM can be used to configure up to 8 cameras (one by one, not simultaneously) and give 8 feeds possibilities for monitoring purposes through laptop in real time. It is easy-to-use and has been designed to provide operator complete control. The software allows to set the detection ROI, different detection area settings (spot, line, polygons, etc.), pre-alarm and alarm levels, color scheme selection, logging and communication. While the detectors fully operate on their own, very useful diagnostic data can be collected from the detectors for further analysis. ViSM is available for download from www.xtralis.com.

Pipes and Fittings

Product Image	Ordering Code	Country	Description
	221-036	ANZ, EU	10mm OD Capillary Pipe (100m Reel), Clear
	E700-CT	ANZ	Capillary tube 5.2mm ID 8mm OD per metre
	E700-EC	ANZ	End Cap
	E700-PJ	ANZ	Pipe junction fitting
	E700-LB	ANZ	Large Radius bend (150mm)
	E700-SB	ANZ	Small Radius bend (90mm)
	E700-T	ANZ	Pipe 25mm Tee Junction
	E700-TA	ANZ	Trunk Adaptor for capillary tubes
	VSP-878		Push-in Connect Adaptor Kit for ½" capillary tubing
	F-PC-0		Sampling Hole Clip, Pack of 5, Black Hole & Tab
	F-PC-2		Sampling Hole Clip, 2.0mm (5/64") Hole Size, Pack of 5, Red Hole

Product Image	Ordering Code	Country	Description
	F-PC-2.5		Sampling Hole Clip, 2.5mm (6/64”) Hole Size, Pack of 5, Red Hole & Tab
	F-PC-3		Sampling Hole Clip, 3.0mm (1/8”) Hole Size, Pack of 5, Orange Hole
	F-PC-3.5		Sampling Hole Clip, 3.5mm (9/64”) Hole Size, Pack of 5, Orange Hole & Tab
	F-PC-4		Sampling Hole Clip, 4.0mm (5/32”) Hole Size, Pack of 5, Yellow Hole
	F-PC-4.5		Sampling Hole Clip, 4.5mm (11/64”) Hole Size, Pack of 5, Yellow Hole & Tab
	F-PC-5		Sampling Hole Clip, 5.0mm (13/64”) Hole Size, Pack of 5, Green Hole
	F-PC-5.5		Sampling Hole Clip, 5.5mm (7/32”) Hole Size, Pack of 5, Green Hole & Tab
	F-PC-6		Sampling Hole Clip, 6.0mm (15/64”) Hole Size, Pack of 5, Blue Hole
	F-PC-6.5		Sampling Hole Clip, 6.5mm (1/4”) Hole Size, Pack of 5, Blue Hole & Tab
	F-PC-HE-2		Sampling Hole Clip, 2.0mm (5/64”) Hole Size, Pack of 5, Red Hole

Product Image	Ordering Code	Country	Description
	F-PC-HE-2.5		Sampling Hole Clip, 2.5mm (6/64”) Hole Size, Pack of 5, Red Hole & Tab
	F-PC-HE-3		Sampling Hole Clip, 3.0mm (1/8”) Hole Size, Pack of 5, Orange Hole
	F-PC-HE-3.5		Sampling Hole Clip, 3.5mm (9/64”) Hole Size, Pack of 5, Orange Hole & Tab
	F-PC-HE-4		Sampling Hole Clip, 4.0mm (5/32”) Hole Size, Pack of 5, Yellow Hole
	F-PC-HE-4.5		Sampling Hole Clip, 4.5mm (11/64”) Hole Size, Pack of 5, Yellow Hole & Tab
	F-PC-HE-5		Sampling Hole Clip, 5.0mm (13/64”) Hole Size, Pack of 5, Green Hole
	F-PC-HE-5.5		Sampling Hole Clip, 5.5mm (7/32”) Hole Size, Pack of 5, Green Hole & Tab
	F-PC-HE-6		Sampling Hole Clip, 6.0mm (15/64”) Hole Size, Pack of 5, Blue Hole
	F-PC-HE-6.5		Sampling Hole Clip, 6.5mm (1/4”) Hole Size, Pack of 5, Blue Hole & Tab
	E700-PC	ANZ	Pipe Clip single point fix
	PIP-039		Air exhaust silencer
	E700-SP	ANZ, US	Sampling point for Capillary tube end

Product Image	Ordering Code	Country	Description
	VSP-877		Flush Mount Sampling Point
	VSP-877-B		Flush Mount Sampling Point, Black
	VSP-877-G		Flush Mount Sampling Point, Grey
	VSP-610		Tamper Proof Sampling Point. Metric 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-850-G		Xtralis In-Line Filter, Grey
	VSP-850-R		Xtralis In-Line Filter, Red
	VSP-855-4		Xtralis In-Line Filter Elements, Pack of 4
	VSP-855-20		Xtralis In-Line Filter Elements, Pack of 20
	128-014-XTR		VESDA Sampling Point Label, Pack of 100
	128-015		VESDA Pipe Labels without Hole for Sampling (100 per Roll)
	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.
	E700-SPLR-DCL		VESDA sampling point wrap around labels (200 per roll)
	E700-SPLR		Miniature sampling point label, round style,Red
	E700-SPLG		Miniature sampling point label, round style, Grey

Product Image	Ordering Code	Country	Description
	E700-SP-DCL-PNT		Round style point labels, White
	E700-SP-DCL-PIPE		Sampling pipe labels (35 per Roll)
	VSP-860		Refrigerated Storage Sampling Kit (c/w upper and lower VSP-860 fixing flange) ** Please ensure PIP-008 (T-Piece) is also used.*
	VSP-870		In-line Flow Restrictor Assembly. *Compatible with VSP-610.*
	VSP-871		Flow Restrictor Disc, Pack of 10 *Compatible with VSP-610 and VSP-610-US.*
	E700-CSC	ANZ	Capillary Sampling Connector for Capillary tubes
	F-BO-AFE70-2	ANZ, EU	FAAST Purging System AFE70-2 (Low Flow)
	F-BO-AFE70-3	ANZ, EU	FAAST Purging System AFE70-3 (High Flow & sub-zero temperatures)

Power Supplies

Style E5 Series Power Supplies

	VPS-220-E5	VPS-215-E5	VPS-250-E5
			
Nominal AC Supply Voltage	230 VAC (tested +10%—15%)		
Power Output	20.0-30 VDC	20.0-30 VDC	19.5-30 VDC
Load	0.5 / 1.0A (1A non-certified to EN54-4)		3 / 3.4A (3.4A non-certified to EN 54-4)
Dimensions (H x W x D)	225 x 351 x 110 mm	226 x 286 x 113 mm	352 x 455 x 182 mm
Weight	3 kg (without batteries) 14 kg (with max batteries)	2.5 kg (without batteries) 8 kg (with max batteries)	7 kg (without batteries) 35 kg (with max batteries)
Compatible Devices	VESDA-E VEP VESDA-E VEU (up to fan speed 5) VESDA-E VES VESDA VLF-500	VESDA VLF-250	VESDA-E VEU (at all fan speeds) VESDA-E VEA
Approvals	• VdS: G220003 & G220018 • CE: 0786-CPR-21681 & 0832-CPR-F2658 • EN54-4: 1997+A1:2002+A2:2006		

Style STX Series Power Supplies

VESDA-E Power Supply Units are uniquely designed to complement the style and appearance of VESDA-E ASDs and are technically matched to provide sufficient current and battery charging capacity to meet the requirement of EN 54-4. The STX variants are VdS approved and CE marked to EN54-4 so are particularly suitable for use in territories where these approvals are required.

	VPS-220-STX5	VPS220-STX5-SLV	VPS-250-STX5	VPS250-STX5-SLV
				
Nominal AC Supply Voltage	230VAC (tested +10% -15%)			
Power Output	20.0 - 30 VDC			
Load	0.5 / 1.0A (1A non-certified to EN54-4)		3 / 3.4A (3.4A non-certified to EN 54-4)	
Dimensions (H x W x D)	300mm x 350mm x 135mm		300mm x 350mm x 198mm	
Weight	4.5kg (without batteries) 16kg (with max batteries)		5.8kg (without batteries) 25kg (with max batteries)	
Compatible Devices	VESDA-E VEP VESDA-E VEU (up to fan speed 5) VESDA-E VES VESDA VLF-500		VESDA-E VEU (at all fan speeds)	

Approvals	• VdS: G220003 & G220018 • CE: 0786-CPR-21681 & 0832-CPR-F2658 • EN54-4: 1997+A1:2002+A2:2006

Note: Batteries are NOT included.

VESDA-E VEA Power Supplies

	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 (W x H x D)	438 mm x 330 mm x 142 mm	
Weight	5.9Kg (13lbs) without batteries	
Approvals	UL, UL 864 listed, ULC-S527, CSFM	

Test and Commissioning Tools

Xtralis Test Transformer VTT-10000 is a tool used to test very early warning ASD equipment. It is used with VESDA-E, VESDA and FAAST FLEX.

Test Transformer

Product Image	Ordering Code	Description
	VTT-10000-AUS	VESDA Test Transformer (Wire Burner) Previously known as the Hot Wire Test. This power supply unit is used to test VESDA-E, VESDA and ICAM equipment. A timer is incorporated to provide a selectable burn period of up to 3 minutes.
	251-001	Smoke Test Wire, 100m

Smoke Pen

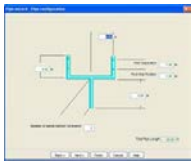
Product Image	Ordering Code	Description
	VSP-810	Smoke Pen with 6 wicks
	VSP-811	Smoke Pen Refill Pack of 6 Wicks

General Tools

Product Image	Ordering Code	Description
	251-003	Smoke Pellets, 8 Tablets
	VSP-950	Test point pipe labels

Software

ASPIRE

Software Image	Description
	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. **Ordering Info:** ASPIRE is available for download from www.xtralis.com.
Supported Products	**VESDA-E** • VESDA-E VEU • VESDA-E VEP • VESDA-E VES **VESDA** • VESDA Sensepoint XCL • VESDA VLP • VESDA VLF-250 • VESDA VLF-500 • VESDA VLI • VESDA VLP • VESDA VLS **ICAM** • IFT-P **FAAST FLEX**

Xtralis VSC

Software Image	Description
	Xtralis VSC configures, commissions and maintains a range of Xtralis fire and gas detection systems including VESDA and ICAM smoke and gas detectors and anciliary devices. Xtralis VSC can configure a single Xtralis device or your entire Xtralis system. **Ordering Code:** VSW-100
Supported Products	**MODBUS** • VESDA Sensepoint XCL • VESDA ECO • IFT-P • Sector • VLW-008 2.19.00 - 3.00.405 **VESDAlink** • VESDA VLC LP Phase 1 • VESDA VLC Ro Phase 1 • VESDA VLC Simplex Phase 2 • VESDA VLC 800-MX Phase 2 • VESDA VLC ESSER Phase 2 • VESDA VLC AP Phase 2 **VESDAnet** • VESDA VLP • VESDA VLS • VESDA VLC • VESDA VLF • VESDA VLC • VESDA VLS • VESDA VLI • VESDA-E VEU • VESDA-E VEP • VESDA-E VEA • VESDA-E VES • Remote Relay • VESDA Display • System Relay Module • VLS Remote Relay • VLS Display • VESDA Programmer • VESDA Sliding Windows HLI • VESDA Stop-and-go HLI • VESDA Open protocol HLI • VESDA Sliding Windows HLI with Dial Out • Analog Output Module • VESDA ModBus HLI • VESDA Access HLI • VESDA MODBUS3 HLI **VESDAtalk** • VESDA VLF • VESDAnet Card • Multifunction 020 Control Card • Multifunction 030 Control Card

Xtralis VSM4

Software Image	Description
	Xtralis VSM4 provides full and comprehensive integration of your VESDA and ICAM smoke and gas detection systems. Note: To correctly specify (order) the Xtralis VSM4 product, the following must be taken into consideration for each particular Xtralis VSM4 application. 1. What are the total number of Monitoring PC's. 1 Primary PC is the minimum. 2. Are there any Text to Speech requirements 3. What are the total number of VESDAnet to be monitored 4. What are the total number of VESDA detectors on the VESDAnet to be monitored 5. What are the total number of "Direct Connect" VESDA detectors.
Ordering Information	Xtralis VSM4 is available for download from www.xtralis.com.

Ordering Code	Description
VSW-206	First PC License
VSW-216	Additional PC License PC
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-500	T2S - Eng-Aust (Karen)
VSW-501	Text to Speech (Add voice message)
VSW-502	Text to Speech - English
VSW-503	Text to Speech- Chin-Cant (Sin-Ji)
VSW-504	Text to Speech - Chin-Mand (Mei-Ling)
VSW-505	Text to Speech - Fr-Fr (Virginie)
VSW-506	Text to Speech - Ger-Ger (Steffi)
VSW-507	Text to Speech - Kor-Kor (Narae)
VSW-508	Text to Speech - Span-Cast (Isabel)
VSW-509	Text to Speech - Ita-Ita (Sylvia)
VSW-510	Text to Speech - Rus-Rus (Katerina)
VSW-517	Text to Speech - English-American
VSW-527	Text to Speech - English-British
VSW-537	Text to Speech - Korean + English
VSW-547	Text to Speech - Spanish + English
VSW-557	Text to Speech - Mandarin + English
VSW-600	Remote Notification - Email Support (Per PC)
VSW-356	VESDA ECO / VESDA Sensepoint XCL Detector network connection - One required per monitored detector

Software Image	Description
Supported Products	**MODBUS** • VESDA Sensepoint XCL • VESDA ECO • IFT-P • Sector • VLW-008 2.19.00 - 3.00.405 **VESDAlink** • VESDA VLC LP Phase 1 • VESDA VLC Ro Phase 1 • VESDA VLC Simplex Phase 2 • VESDA VLC 800-MX Phase 2 • VESDA VLC ESSER Phase 2 • VESDA VLC AP Phase 2 **VESDAnet** • VESDA VLP • VESDA VLS • VESDA VLC • VESDA VLF • VESDA VLC • VESDA VLS • VESDA VLI • VESDA-E VEA • VESDA-E VEU • VESDA-E VEP • VESDA-E VES • Remote Relay • VESDA Display • System Relay Module • VLS Remote Relay • VLS Display • VESDA Programmer • VESDA Sliding Windows HLI • VESDA Stop-and-go HLI • VESDA Open protocol HLI • VESDA Sliding Windows HLI with Dial Out • Analog Output Module • VESDA ModBus HLI • VESDA Access HLI • VESDA MODBUS3 HLI **VESDAtalk** • VESDA VLF • VESDAnet Card • Multifunction 020 Control Card • Multifunction 030 Control Card

Locations

Please refer to the Xtralis website for office locations.

Technical Support

Please refer to the Xtralis website for technical support contacts.

ABOUT XTRALIS



Xtralis is a leading global provider of powerful solutions for very early & 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-valuable and irreplaceable assets and infrastructure belonging to the world's top governments and businesses.

To learn more, please visit us at www.xtralis.com.