

VESDA Model Comparison Chart



Features	VESDA-E					VESDA						Industrial Products		
	VEU	VEP		VEA	VLQ	VLP	VLS	VLC VESDAnet (VN)	VLC Relays Only (RO)	VLF 250/500	VFT-15	Industrial VESDA VLI	VLC-EX	
		VEP-1	VEP-4											
Worldwide Certificates	UL, ULC, FM, ActivFire, VdS, CPR	UL, ULC, FM, ActiveFire, VdS, CE, EN		UL, ULC, CSFM	UL, ULC, LPCB, CPR, VNIPO, VdS	UL, ULC, FM, ActivFire, LPCB, VdS, AFNOR, UL268A (in-duct application), NY-MEA, CSFM, CCCF, CPR, VNIPO						UL, ULC, FM, AFNOR, VdS, VNIPO, CPR	UL, ULC, FM, ActivFire, CPR, LPCB, VdS	UL, FM, ATEX, IECEx, CPR
Hazardous Area Approval (FM Class 1, Div 2, Groups A, B, C, D)	Pending	No	Pending	N/A	No	Yes	No	Yes	Yes	Yes	No	Yes	Yes	
Min Fire 1 Threshold	0.001% obs/m (0.0031% obs/ft)	0.01% obs/m (0.0031% obs/ft)		1.63% obs/m (0.5% obs/ft)	0.15% obs/m (0.046% obs/ft)	0.015% obs/m (0.0046% obs/ft)				0.025% obs/m (0.008% obs/ft)	0.01% obs/m (0.0031% obs/ft)	0.15%/m (0.046%/ft)	0.015% obs/m (0.0046% obs/ft)	
Detection Range	0.001 - 20.0% obs/m (0.0031 - 6.25% obs/ft)	0.005 - 20% obs/m (0.0016% - 6.25% obs/ft)		0.020 - 16% obs/m (0.0062 - 5% obs/ft)	0.005 - 3.0% obs/m (0.0016 - 0.937% obs/ft)	0.005 - 20% obs/m (0.0016 - 6.25% obs/ft)				0.025 - 20% obs/m (0.008 - 6.25% obs/ft)	0.001 - 20% obs/m (0.0031 - 6.25% obs/ft)	0.005 - 20.0% obs/m (0.0016 - 6.25% obs/ft)	0.005 - 20% obs/m (0.0016 - 6.25% obs/ft)	
No. of Pipe Inlets	4	1	4	40 (expandable to 120 tubes)	2	4		1		1	15	4	1	
Two Stage Filtration	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Patented Intelligent Filter Secondary Foam Filter Sub-sampling Probe	Yes	
Area Coverage	6,500 m ² * (69,960 sq.ft)	1,000 m ² (10,750 sq ft)	2,000 m ² (21,520 sq ft)	2,000 m ² (21,520 sq ft) across 40 -120 sample holes	100 m ² (1,070 sq. ft)	2,000 m ² (21,520 sq ft)	2,000 m ² (21,520 sq ft) across 4 sectors	800 m ² (8,610 sq ft)		250/500 m ² (2,690/5,380 sq ft)	1,500 m ² (16,140 sq ft) across 15 sectors	2,000 m ² (21,520 sq. ft)	800 m ² (8,610 sq.ft)	
Pipe Length (Linear)	400 m (1,312 ft)	100 m (328 ft)	280 m (919 ft)	40 x 100 m (130 x 328 ft)	12 m (39 ft)	200 m (656 ft)	200 m (656 ft)	80 m (262 ft)		25/50 m (82/164 ft)	15 x 50 m (45 x 164 ft)	360 m (1,181 ft)	80 m (262 ft)	
Pipe Length (Branched)	800 m (2,625 ft)	130 m (427 ft)	560 m (1,837 ft)	N/A	18 m (59 ft)	400 m (1,312 ft)	400 m (1,312 ft)	100 m (328 ft)		30/60 m (98/197 ft)	N/A	445 m (1,460 ft)	100 m (328 ft)	
Multiple Pipe Addressability	No	No		Up to 120	No	No	Up to 4	No	No	No	Up to 15	No	No	
Total Number of Alarm Thresholds	4 (Day/Night)	4 (Day/Night)		4 (Day/Night)	2	4 (Day/Night)	16 (Day/Night)	3	3	4 (Day/Night)	60 (Day/Night)	4 (Day/Night)	3	
Relay Outputs	7	7		7 (Expandable to 127)	3	7	7 or 12 relays	3	3	3 (Expandable to 6)	5 (Expandable to 21)	5	3	
On-board Memory (Max. Events)	20,000	20,000		20,000	Up to 1,000	18,000	18,000	12,000	12,000	18,000	Up to 20,000	18,000	12,000	
IP Rating	IP40	IP40		IP40	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP66	IP54	

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

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		VEP-1	VEP-4											
AutoLearn™ (Smoke/Flow)	AutoLearn Smoke™ AutoLearn Flow™	AutoLearn Smoke™ AutoLearn Flow™		No	Yes (Smoke)	Yes (Smoke)	Yes (Smoke)	Yes (Smoke)	Yes (Smoke)	AutoLearn Smoke™ AutoLearn Flow™	No	AutoLearn Smoke™ AutoLearn Flow™	Yes (Smoke)	
EN54-20 Max. no of Holes (Class A / B / C)	80 / 80 / 100	30 / 40 / 45	40 / 80 / 100	40-120 (B & C)	4 / 4 / 4	30 / 60 / 100	40 / 40 / 60	30 / 36 / 40	30 / 36 / 40	VLF 250 12 / 12 / 12; VLF 500 30 / 30 / 30	15 / 15 / 15	24 / 28 / 60	30 / 36 / 40	
Bar Graph/Indicator LED	LEDs or 3.5" Color Touch Screen	LEDs	LEDs or 3.5" Color Touch Screen	LEDs or 3.5" Color Touch Screen	Local (5 on-board LEDs) 2x7-segment LED display	Local or Remote (20 segment bargraph display)	Local or Remote (20 segment bargraph display)	Local (5 on-board LEDs). Remote (20 segment bargraph display)	Local (5 on-board LEDs)	Local (7 on-board LEDs 10 Segment Circular Display) Remote display when fitted with VESDAnet card	Yes	Local (5 on-board LEDs) Remote display for VLI-885	As per VLC (VN) & VLC (RO)	
Programming Tools - On-board Programming module - Handheld Programmer - PC Software (VSC, VSM)	Programmed via USB/Ethernet/ WiFi connection to PC using VSC/VSM4	Programmed via USB/Ethernet/WiFi connection to PC using VSC/VSM4		Programmed via USB/Ethernet/ WiFi connection to PC using VSC/VSM4	Onboard DIP switches Xtralis QSC	Yes	Yes	Yes	Programmed via RS232 direct connection to PC using VSC™	Programmed via RS232 direct connection to PC using VSC™ or Programmer when VN card is fitted	On-board programmer and PC Software (VSC/VSM4)	BACnet over Ethernet Local USB configuration port Connection to PC using VSC/ VSM4 Programmer for VLI-885	As per VLC (VN) & VLC (RO)	
StaX Expandability	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No
Analytics	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No
VESDAnet™														
Max. No. of devices/ detectors per loop	200 / 100	200 / 100		200 / 100	N/A	200 / 100	200 / 100	200 / 100	N/A	200 / 100 (with VN Card)	N/A	200 / 100 (VLI-885)	200 / 100 (VN version)	
Max. Distance between Devices	1,300 m (4,265 ft)	1,300 m (4,265 ft)		1,300 m (4,265 ft)	N/A	1,300 m (4,265 ft)	1,300 m (4,265 ft)	1,300 m (4,265 ft)	N/A	1,300 m (4,265 ft) (with VN Card)	N/A	1,300 m (4,265 ft) (VLI-885)	1,300 m (4,265 ft) (VN version)	
Computer-based Management via VSM	Yes	Yes		Yes	N/A	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes (VN version)	
Remote Relay Modules - 7 relay version - 12 relay version	VRT-500 N/A	VRT-500 N/A		VRT-500 N/A	N/A	VRT-500 N/A	VRT-E00 VRT-900	VRT-500 N/A	N/A	VRT-500 N/A	N/A	VRT-500 N/A	VRT-500 (VN version)	
Compatible Remote Bargraph Displays - Display, 7 relays - Display, 12 relays - Display, no relays	VRT-200 N/A VRT-600	VRT-200 N/A VRT-600		VRT-200 N/A VRT-600	N/A	VRT-200 N/A VRT-600	VRT-400 VRT-800 VRT-700	VRT-J00 N/A VRT-K00	N/A	VRT-V00 N/A VRT-W00 (with VN Card)	N/A	VRT-Q00 N/A VRT-T00 (VLI-885)	As per VLC (VN) & VLC (RO)	