

VESDA Model Comparison Chart



FEATURES	VESDA-E				VESDA						Industrial Products	
	VEU	VEP		VEA	VLP	VLS	VLC VESDAnet (VN)	VLC Relays Only (RO)	VLF 250/500	VFT-15	Industrial VESDA VLI	VLC-EX
		VEP-A00-1P	VEP-A00-P									
Pipes and Area Coverage												
Pipe Length (Linear)	400 m (1,312 ft)	100 m (328 ft)	280 m (919 ft)	40 x 100 m (40 x 328 ft)	200 m (656 ft)	200 m (656 ft)	80 m (262 ft)		25 / 50 m (82 / 164 ft)	15 x 50 m (15 x 164 ft)	360 m (1,181 ft)	80 m (262 ft)
Pipe Length (Branched)	800 m (2,624 ft)	130 m (427 ft)	560 m (1,837 ft)	N/A	400 m (1,312 ft)	400 m (1,312 ft)	100 m (328 ft)		30 / 60 m (98 / 197 ft)	N/A	445 m (1,460 ft)	100 m (328 ft)
Area Coverage	6,500 m ² * (69,965 sq.ft)	1,000 m ² (10,760 sq. ft)	2,000 m ² (21,520 sq. ft)	2,000 m ² (21,520 sq. ft) across 40 -120 sample holes	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)
No. of Pipe Inlets	4	1	4	40 (expandable to 120 tubes)	4		1		1	15	4	1
Multiple Pipe Addressability	No	No		Up to 120	No	Up to 4	No	No	No	Up to 15	No	No
Sensitivity												
Min Fire 1 Threshold	0.001% obs/m (0.0003% obs/ft)	0.01% obs/m (0.0031% obs/ft)		1.6% obs/m (0.5% obs/ft)	0.015% obs/m (0.0046% obs/ft)				0.025% obs/m (0.008% obs/ft)	0.01% obs/m (0.0031% obs/ft)	0.15%/m (0.046%/ft)	0.015% obs/m (0.0046% obs/ft)
Detection Range	0.001 - 20.0% obs/m (0.0003 - 6.25% obs/ft)	0.005 - 20% obs/m (0.0016% - 6.25% obs/ft)		0.020 - 16% obs/m (0.006 - 4.88% obs/ft)	0.005 - 20% obs/m (0.0016 - 6.25% obs/ft)				0.025 - 20% obs/m (0.008 - 6.25% obs/ft)	0.001 - 20% obs/m (0.0003 - 6.25% obs/ft)	0.005 - 20.0% obs/m (0.0016 - 6.25% obs/ft)	0.005 - 20% obs/m (0.0016 - 6.25% obs/ft)
EN54-20 (Class A/B/C)												
Max. no of Holes (Class A / B / C)	80 / 80 / 100	30 / 40 / 45	40 / 80 / 100	40 - 120**	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
Sampling Point Sensitivity (%obs/m)	1.5 / 3 / 8	1.5 / 3 / 8		1.6 / 4 / 8	1.5 / 4.5 / 10	1.5 / 4.5 / 10	1.5 / 4.5 / 10		1.5 / 4.5 / 10	0.1 / 0.1 / 1	1.5 / 4.5 / 10	1.5 / 4.5 / 10
Transport Time (seconds)	70 / 90 / 110	60 / 90 / 110		40 - 90 (Tube length dependent)	60 / 90 / 120	75 / 90 / 90	60 / 90 / 120		VLF 250 60 / 60 / 60 VLF 500 90 / 90 / 90	30 / 30 / 30	60 / 90 / 120	60 / 90 / 120
Others												
Hazardous Area Approval (FM Class 1, Div 2, Groups A, B, C, D)	Pending	No	Pending	N/A	Yes	No	Yes	Yes	Yes	No	Yes	Yes
IP Rating	IP40	IP40		IP40	IP30	IP30	IP30	IP30	IP30	IP30	IP66	IP54
Two Stage Filtration	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Patented Intelligent Filter Secondary Foam Filter Sub-sampling Probe	Yes

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

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

FEATURES	VESDA-E				VESDA						Industrial Products	
	VEU	VEP		VEA	VLP	VLS	VLC VESDAnet (VN)	VLC Relays Only (RO)	VLF 250/500	VFT-15	Industrial VESDA VLI	VLC-EX
		VEP-A00-1P	VEP-A00-P									
Total Number of Alarm Thresholds	4 (Day/Night)	4 (Day/Night)		4 (Day/Night)	4 (Day/Night)	16 (Day/Night)	3	3	4 (Day/Night)	60 (Day/Night)	4 (Day/Night)	3
Relay Outputs	7	7		7 (Expandable to 127)	7	7 or 12 relays	3	3	3 (Expandable to 6)	5 (Expandable to 21)	5	3
On-board Memory (Max. Events)	20,000	20,000		20,000	18,000	18,000	12,000	12,000	18,000	Up to 20,000	18,000	12,000
AutoLearn™ (Smoke/Flow)	AutoLearn Smoke™ AutoLearn Flow™	AutoLearn Smoke™ AutoLearn Flow™		No	Yes (Smoke)	Yes (Smoke)	Yes (Smoke)	Yes (Smoke)	AutoLearn Smoke™ AutoLearn Flow™	No	AutoLearn Smoke™ AutoLearn Flow™	Yes (Smoke)
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 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	Yes	Yes	Yes	Programmed via RS232 direct connection to PC using VSC™	Programmed via RS232 direct connection to PC using VSC™ or Programmer when VN card is fitted	On-board programmer and PC Software (VSC/VSM4)	Local USB configuration port Connection to PC using VSC/VSM4 Programmer for VLI-885	As per VLC (VN) & VLC (RO)
StaX Expandability	Yes	Yes		Yes	No	No	No	No	No	No	No	No
Analytics	Yes	Yes		No	No	No	No	No	No	No	No	No
Worldwide Certificates	UL, ULC, FM, VdS, CE, ActivFire, RCM, AFNOR, CSFM, FDA, VNIIPO, EN 54-20	UL, ULC, FM, ActiveFire, RCM, VdS, CE, AFNOR, CSFM, EN 54-20		UL, ULC, CSFM, VdS, CE, EN 54-20	UL, ULC, FM, LPCB, VdS, CFE, ActivFire, AFNOR, UL268A (in-duct application), VNIIPO, CE, NY-MEA, CSFM, FDA, BOMBA, ONORM, RCM, EN 54-20,					UL, ULC, FM, CE, VdS, VNIIPO, CFE, AFNOR, CSFM, FDA, NY-MEA, EN 54-20	UL, ULC, FM, LPCB, VdS, AFNOR, CSFM, FDA, BOMBA, VNIIPO, RCM, NY-MEA, SIL 2 as per IEC 61508, EN 54-20	UL, FM, ATEX, IECEx, CPR, DNV, EN 54-20 RCM
VESDAnet™												
Max. No. of devices/detectors per loop	200 / 100	200 / 100		200 / 100	200 / 100	200 / 100	200 / 100	N/A	200 / 100 (with VN Card)	N/A	200 / 100 (VLI-885)	200 / 100 (VN version)
Max. Distance between Devices	1,300 m (4,265 ft)	1,300 m (4,265 ft)		1,300 m (4,265 ft)	1,300 m (4,265 ft)	1,300 m (4,265 ft)	1,300 m (4,265 ft)	N/A	1,300 m (4,265 ft) (with VN Card)	N/A	1,300 m (4,265 ft) (VLI-885)	1,300 m (4,265 ft) (VN version)
Computer-based Management via VSM	Yes	Yes		Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes (VN version)
Remote Relay Modules - 7 relay version - 12 relay version	VRT-500 N/A	VRT-500 N/A		VRT-500 N/A	VRT-500 N/A	VRT-E00 VRT-900	VRT-500 N/A	N/A	VRT-500 N/A	N/A	VRT-500 N/A	VRT-500 (VN version)
Compatible Remote Bargraph Displays - Display, 7 relays - Display, 12 relays - Display, no relays	VRT-200 N/A VRT-600	VRT-200 N/A VRT-600		VRT-200 N/A VRT-600	VRT-200 N/A VRT-600	VRT-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)

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