VESDA Model Comparison Chart

FEATURES	VEU	VEP		VES	VEA	VLF 250/500	VLI
		VEP 1-pipe	VEP 4-pipes				
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 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)	3,345 m^2 (36,005 sq. ft)* across 40 sample holes	250 / 500 m^2 (2,690 / 5,380 sq. ft)	2,000 m^2 (21,520 sq. ft)
No. of Pipe Inlets	4	1	4	4	40 micro-bore tubes	1	4
Multiple Pipe Addressability	No	No		Up to 4 sectors	Up to 40 sampling holes	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% obs/m (0.0003 - 6.575% obs/ft)	0.005 - 20% obs/m (0.0015% - 6.575% obs/ft)		0.005 - 20% obs/m (0.0015% - 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% obs/m (0.015 - 6.575% 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 / 80 / 100***	40 - 40**	VLF 250 12 / 12 / 12; VLF 500 30 / 30 / 30	24 / 28 / 60
Sampling Point 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

* 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.
*** Subject to agency testing.

FEATURES	VEU	VEP		VES	VEA	VLF 250/500	VLI
		VEP 1-pipe	VEP 4-pipe				
Total No. 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
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” Color Touch Screen	LEDs	LEDs or 3.5” Color Touch Screen	LEDs or 3.5” Color Touch Screen	LEDs or 3.5” Color 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 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	No	No
Worldwide Certificates	FM, VdS, NF, CE, UKCA, ActivFire, CCC, EN 54-20, ISO 7240-20	FM, VdS, NF, CE, UKCA, ActivFire, CCC, EN 54-20, ISO 7240-20		FM, VdS, NF, CE, UKCA, ActivFire, EN 54-20, ISO 7240-20, CCC	FM, VdS, CE, UKCA, ActivFire, EN 54-20, ISO 7240-20	CCC, FM, ActivFire, CE, UKCA, LPCB, VdS, NF, EN 54-20	FM, ActivFire, CE, UKCA, LPCB, NF, SIL 2 as per IEC 61508, EN 54-20
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		VRT-400 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)