

ASPIRATING SMOKE DETECTION

VESDA®

.....
Buys Time

VESDA® Product List



Effective October 2008

Contents

1	VESDA LaserPLUS (VLP) Detector Configurations.....	4
2	VESDA LaserSCANNER (VLS) Detector Configurations.....	5
3	VESDA LaserCOMPACT (VLC) Detectors.....	6
4	VESDA LaserFOCUS (VLF) & VESDA Exd (VLX) Detectors.....	7
5	VESDA Remote Mount Configuration (VRT).....	8
6	VESDA Sub Rack Configurations (VSR).....	9
7	VESDA Sub Rack Enclosures.....	11
8	VESDA Programming Options.....	12
9	VESDA Software Options.....	13
10	VESDA Power Supplies.....	14
11	VESDA Spare Parts.....	15
12	VESDA Pipe & Fittings.....	16
13	Commissioning Assistance.....	18
14	Terms and Conditions of Trade.....	18


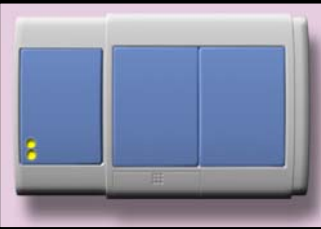


Introduction

VESDA is a High sensitivity Laser-based optical smoke detection system based on the original **VESDA** smoke detector. The system is modular for maximum flexibility and can be quickly and simply configured to meet specific requirements in even the most demanding environment. There are a number of different modules in the system that can be mounted in a Detector or Remote unit (remote mounting box with module) or a 19" Sub rack. Programming of the system can be performed either on a LCD Programmer (this can be mounted with the system or in a Hand Held unit) or via a link to a PC.

An RS 485 communications network known as **VESDA_{net}** connects **VESDA** Laser modules. Multiple Detector and Remote units can be connected to a single **VESDA_{net}** network. External devices can communicate with the **VESDA** Laser system using a High Level Interface connected to the **VESDA_{net}** or directly to the relays inside each detector unit.

1 VESDA LaserPLUS (VLP) Detector Configurations

- A standard set of product configurations are described below.
- Model numbers and positions are pre-configures for easy ordering.
- Adjustable sensitivity range is 0.005-20% Obs/m. All detector have four configurable Alarm Thresholds.

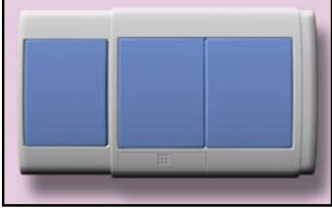



	DESCRIPTION Part No.	PRICE
	LaserPLUS Detector only enclosure with three blank plates. Requires external 24VDC Power Supply. VLP-000	
	LaserPLUS Detector only enclosure with three blank plates. The plate in the far left position includes Fire 1 Alarm and OK (FOK) LED's. Requires external 24 VDC Power Supply. VLP-400	
	LaserPLUS Detector with two blank plates and a standard Display module. The Display module is mounted in the far right position. Requires external 24 VDC Power Supply. VLP-002	
	LaserPLUS Detector with a centrally mounted LCD Programmer module and a Standard Display module. Requires external 24 VDC Power Supply. VLP-012	

Notes:

- (1) All detectors include a head termination card with 7 relays (HTC7) and a **VESDA**net socket.
- (2) The blank plate in the far left position includes the **VESDA** logo.
- (3) The detector can be supplied in an inverted orientation. For this configuration, add 10 to the end of the product code. E.g. VLP-00219.

2 VESDA LaserSCANNER (VLS) Detector Configurations





- A standard set of product configurations are described below.
- Model numbers and positions are pre-configured for easy ordering.
- Adjustable sensitivity range is 0.005-20% Obs/m. All detector have four configurable Alarm Thresholds.
- Provides up to 4 addressable sampling pipes.

	DESCRIPTION Part No.	PRICE
	<p>LaserSCANNER Detector only enclosure with three blank plates. Requires external 24VDC Power Supply.</p> <p>VLS-200 7 Relay Version VLS-300 12 Relay Version</p>	
	<p>LaserSCANNER Detector only enclosure with three blank plates. The plate in the far left position includes FIRE 1 Alarm for any sector and OK (FOK) LED's. Requires external 24 VDC Power Supply.</p> <p>VLS-600 7 Relay Version VLS-700 12 Relay Version</p>	
	<p>LaserSCANNER Detector with two blank plates and a SCANNER Display module. The Display module is mounted in the far right position. Requires external 24VDC Power Supply.</p> <p>VLS-204 7 Relay Version VLS-304 12 Relay Version</p>	
	<p>LaserSCANNER Detector with a centrally mounted LCD Programmer Programmer module and a SCANNER Display module. Requires external 24 VDC Power Supply.</p> <p>VLS-214 7 Relay Version VLS-314 12 Relay Version</p>	

Notes:

- (1) All detectors include a head termination card with either 7 or 12 relays and a **VESDA**net socket.
- (2) The blank plate in the far left position includes the **VESDA** logo.
- (3) Scanner Detectors are almost identical to the look of the standard VLP. However, the Scanner Display includes an extra LED and the scan option. The pipe inlet manifold holds the sequencing valve.
- (4) The detector can be supplied in an inverted orientation. For this configuration, add 10 to the end of the product code. E.g. VLS-21410
- (5) The display card is supplied as standard with English text. Other European languages are available, please call for assistance or specify during ordering.

3 VESDA LaserCOMPACT (VLC) Detectors



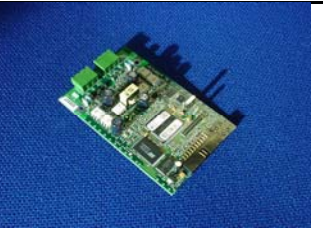


	DESCRIPTION Part No.	PRICE
	<p>LaserCOMPACT (VN) VESDA<i>net</i> Version plus relay output, compatible with the entire family of VESDA Laser products (VLP, VLS, VMS4 etc). Adjustable sensitivity range is 0.005-20% Obs/m, Optional Remote display and 7 Relays, 3 Levels of Alarm provided. Requires External 24 VDC Power Supply.</p> <p>Programming: The VN version utilises VESDA Laser Programmers, Version 2.25 or later. Programmer configurations include: Hand Held, Remote Mount, Rack Mount versions or PC Link HLI connecting to a laptop running VESDA System Configurator (VSC) software.</p> <p>VLC-505VN</p>	
	<p>MARINE APPROVED LaserCOMPACT (VN) Approved by Bureau Veritas and Lloyds Register.</p> <p>VLC-50500-MRN</p>	
	<p>LaserCOMPACT (RO) Relay Only Version, 3 Levels of Alarm provided, adjustable sensitivity range 0.005-20% Obs/m, directly programmable with VSC software via a serial link connection. Remote LED output/option. Requires External 24 VDC Power supply. Programming: The RO Version requires VSC Software and RO cable, P/N VSP-509. See spares and accessories for cable information</p> <p>VLC-500 RO</p>	
	<p>MARINE APPROVED LaserCOMPACT (RO) C/W 7 relays. Approved by Bureau Veritas and Lloyds Register</p> <p>VLC-50000-MRN</p>	
	<p>MARINE APPROVED Display LaserCOMPACT Version</p> <p>VRT-J00-MRN</p>	
	<p>LaserCOMPACT Apollo This variant of the LaserCOMPACT transmits an analogue signal to any XP95 or Discovery compatible fire panel.</p> <p>VLC-400AP</p>	

Notes:









- (1) Both detectors have three relays, Pre-Alarm, Fire and Fault.
- (2) The VN version has a **VESDA***net* socket. All other versions have a nine pin serial lead connection.
- (3) The display card is supplied as standard with English test. Other European languages are available, please call for assistance or specify during ordering.

Parts List

4 VESDA LaserFOCUS (VLF) & VESDA Exd (VLX) Detectors

	DESCRIPTION Part No.	PRICE
	<p>LaserFOCUS The VESDA LaserFOCUS is designed to protect small, business critical environments of less than 250m². Includes 3 changeover relays (Fire, Action, Fault). "Out of Box" installation, commissioning and ultrasonic airflow sensing. Advanced configuration requires VSC and a nine pin serial lead connection</p> <p>VLF-250</p>	
	<p>LaserFOCUS The VESDA LaserFOCUS is designed to protect small, business critical environments of less than 500m². Includes 3 changeover relays (Fire, Action, Fault). "Out of Box" installation, commissioning and ultrasonic airflow sensing. Advanced configuration requires VSC and a nine pin serial lead connection</p> <p>VLF-500</p>	
	<p>VESDAnet Card Mounted internally within the LaserFOCUS detector, the VESDAnet card allows seamless integration to existing VESDAnet devices.</p> <p>VIC-010</p>	
	<p>Multi-Function Control Card for VESDA LaserFOCUS Provides 2 extra Alarm Relays and 1 extra General Purpose Input.</p> <p>VIC-020</p>	
	<p>Multi-Function Control Card with Monitored Powered Output for VESDA LaserFOCUS Provides all the features of the VIC-020 with an additional Alarm Relay which can be programmed as a Monitored Power Output.</p> <p>VIC-030</p>	
	<p>LaserCOMPACT Ex d This model is specifically designed for use within hazardous environments that may contain flammable gases. Ex d IIB T6 Approved Suitable for installation in Zone 2 Hazardous areas</p> <p>VLX-100</p>	

5 VESDA Remote Mount Configuration (VRT)

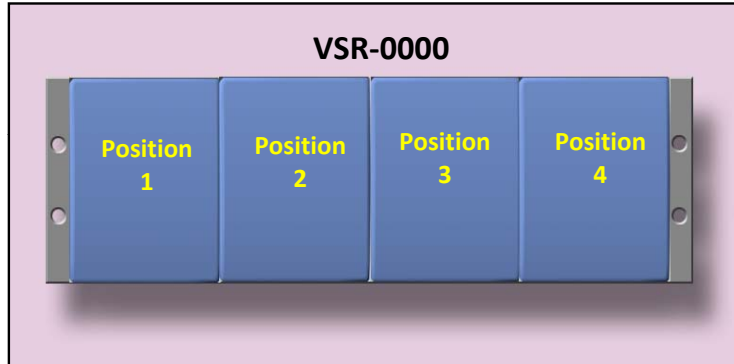
	DESCRIPTION Part No.	PRICE
	<p>Programmer Includes remote termination card with no relays.</p> <p>VRT-100</p>	
	<p>Display LaserPLUS version with a remote termination card.</p> <p>VRT-200 With 7 Relays VRT-600 Without Relays</p>	
	<p>Display LaserSCANNER version with a remote termination card. seamless integration to existing <i>VESDA</i>net devices.</p> <p>VRT-400 With 7 Relays VRT-700 Without Relays VRT-800 With 12 Relays</p>	
	<p>Display LaserFOCUS version with a remote termination card.</p> <p>VRT-W00 Without Relays VRT-V00 With 7 Relays</p>	
	<p>Display LaserCOMPACT Version</p> <p>VRT-J00 With 7 Relays VRT-K00 Without Relays</p>	
	<p>VESDAnet Socket For remote connection to the <i>VESDA</i>net</p> <p>VRT-300</p>	
	<p>Remote Termination and Relay Processor Card Includes blank plate with a remote mounting box. The 7 Relay versions can also be used with <i>VESDA</i> LaserCOMPACT</p> <p>VRT-500 With 7 Relays VRT-E00 With 7 Relays (Scanner only) VRT-900 With 12 Relays (Scanner only)</p>	
	<p>System Relay Module When connected to a network and residing in zone 0, this 7 relay module will react to a fire or fault condition from any detector on that network.</p> <p>VRT-S07 With 7 Relays</p>	
	<p>Analogue Output Module AOM converts the digital input from the <i>VESDA</i> detectors into an analogue output allowing an interface with existing BMS and FACP's. With four configurable outputs (e.g. 4 VLP detectors and 4 sectors of a single VLS detectors)</p> <p>VRT-A10</p>	

Notes:

- (1) All configurations include a single wall mounting box.
- (2) All modules require an external 24 VDC Power Supply.

6 VESDA Sub Rack Configurations (VSR)

The **VESDA** Sub Rack can be configured thousands of different ways. For ease of configuration, this guide includes a configuration worksheet which can be printed and used as required/



How to Self-Configure your 19" Sub Rack:

Sub rack configurations include the options for both "Front" and "Back" Modules. A Front module is a display programmer, **VESDA**net socket or relay processor module. Back modules are remote termination cards with a variety of relay options. To configure your Sub Rack, use the table the follows. To check some of your configurations, see the examples.

Simply Follow These Steps:-



- (1) Start with the empty rack, Part Number, VSR-0000.
- (2) Choose the modules you want in positions 1 through 4.
- (3) Configure your Part Number by adding the appropriate Part no. Digit after the prefix VSR. The Part No. Is shown on the table. Part No. must be inserted for each of the four positions this includes a zero when a blank plate is required.
- (4) The positioning of the numbers indicates how the units will be installed into the sub rack.
- (5) When complete, check that you configured sub rack is not available as a pre configured system.

Notes:

- The Sub-Rack mounts on any standard 19" rack. Sub-Rack Enclosures are also available (see page 13).
- Front and Back modules are preconfigured on the following pages. However, if you purchase spare modules it is important to note all programmers and displays require remote termination cards. The only exception to this is when a programmer is mounted next to a display and then the programmer can "Share" the termination card of the display.
- Every relay termination card requires a display or relay processor board.
- 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 card.
- All sub racks require a 24VDC supply.

Parts List




Examples:

<p>VSR-2A00: 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. The programmer is "Sharing" the displays termination card, hence the letter A to indicate the programmer.</p>	
<p>VSR-4423: 19" Sub Rack with: 2 LaserSCANNER 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 VESDA_{net} socket is in position 4.</p>	

Part No.	DESCRIPTION - Sub rack Components						PRICE
VSR-	XXXX						
0	Blank Plate						
A	Programmer sharing adjacent termination cards						
1	Programmer with remote termination card - no relays						
2	standard display with 7 relay remote termination card						
3	VESDA_{net} 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						
J	VLC VN Display with 7 relays						
K	VLC VN display with no relays						
V	VLF display with 7 relay remote termination card						
W	VLF display without relays						
ADD	VSR-0000 Empty Sub Rack						
VSR	VSR	Position	Position	Position	Position		
VSR (Example)	0000	2	2	2	A	TOTAL	
Costing							
VSR							
Costing							

Parts List




7 VESDA Sub Rack Enclosures

	DESCRIPTION Part No.	PRICE
	<p>19" Rack enclosure for up to two VESDA sub Racks (not included).</p> <p>The enclosure has a glazed lockable door and an internal swing frame to allow easy access to the back of the sub rack.</p> <p>020-052</p>	
	<p>19" Rack enclosure for up to five VESDA Sub Racks (not included).</p> <p>The enclosure has a glazed lockable door and an internal swing frame to allow easy access to the back of the sub rack.</p> <p>020-055</p>	
	<p>Detector enclosure. Complete with all fittings to make a detector IP-65.</p> <p>For LaserPLUS and LaserSCANNER. Please note: This part number does not include the detector. The front cover is lockable and has a small window to allow viewing of the display card (if fitted).</p> <p>020-050</p>	
	<p>Single row blanking plate</p> <p>Used to fill the enclosure if less sub racks are used than the enclosures maximum.</p> <p>149-021</p>	

Notes:

- (1) Standby battery supply should be calculated to in accordance with local requirements and site specifications.

8 VESDA Programming Options

	DESCRIPTION Part No.	PRICE
	<p>The PC-Link High Level Interface (PC-Link HLI)</p> <p>Connects a PC to a VESDA LaserPLUS system. Each PC-Link HLI includes 2 cables (it does not include a PC):</p> <ul style="list-style-type: none"> - RS232 from HLI to PC Com port - Rs485 from HLI to VESDAnet Socket <hr/> <p>PC-Link HLI, Sliding Windows, RS232 Interface (For VSM4 and VSC Software)</p> <hr/> <p>VHX-0200</p> <p>PC-Link HLI, Open Protocol, Peer to Peer High level Interface. RS232 Interface for connection to a BMS or Fire Panel.</p> <hr/> <p>VHX-0300</p>	
	<p>Metal enclosure with Remote VESDA net socket and HLI</p> <p>This allows a neat permanent connection to a PC. Note: This device requires an external 24VDC power supply.</p> <hr/> <p>VHX-1200</p>	
	<p>PC-HLI, Modem</p> <p>This modem is complete with RS232 cable to connect to the HLI. This allows connection of a VESDAnet system to a telephone line to utilise the dial In/Out capabilities of VMS4. This connection is placed in lieu of the RS232 lead.</p> <hr/> <p>101-001</p>	
	<p>Hand held Programmer including Lead</p> <p>For temporary connection of a programmer to a network via a VESDAnet socket.</p> <hr/> <p>VHH-100</p>	





Parts List

9 VESDA Software Options

	DESCRIPTION Part No.	PRICE												
VSW-202	<p>ASPIRE2™ Advanced Pipe Modelling Software which provides a new level of usability, introducing a series of features and functionality to improve performance prediction, encourage good design proactive and simplify (and speed up) the process of getting good results for the user.</p> <p>NOTE: The product has a 90 day evaluation period. Once the evaluation period has passed, you will need to have a registration password ONLY available on completion of a VESDA training course.</p>	Download from www.xtralis.com												
VSW-100	<p>VESDA System Configurator (VSC™) Introduces a new level of usability and enhanced features that allow faster product interaction for commissioning and diagnostics of the VESDA range of detectors.</p> <p>NOTE: The product has a 90 day evaluation period. Once the evaluation period has passed, you will need to have a registration password ONLY available on completion of a VESDA training course.</p>	Download from www.xtralis.com												
VSM4	<p>VESDA System Management (VSM™) Software Package with configurable floor plans.</p> <p>PLEASE CALL YOUR LOCAL REPRESENTATIVE FOR FURTHER INFORMATION</p>													
	VSW-206 First PC License													
	VSW-216 Additional PC License / PC													
	VSW-226 VSM Primary PC (upgrade from VSM3)													
	VSW-346 VESDAnet network Connection													
	VSW-356 VESDAnet Detector Connection per detector													
	VSW-366 VESDAtalk / VESDALink Detector Connection													
	VSW-600 Remote Notification - Email Support (Per PC)													
	VSW-501 Test to Speech (add voice message)													
	Computer Requirements:													
	<table border="1"> <tr> <td>OS</td> <td>Windows 2000 or XP (Professional)</td> </tr> <tr> <td>Processor</td> <td>Pentium. Minimum configuration: P4 2.8 GHz 1 MB cache.</td> </tr> <tr> <td>Memory</td> <td>2GB</td> </tr> <tr> <td>Hard Disk</td> <td>1 by 80 GB system disk, or 2 by 80 GB connected to Raid Storage.</td> </tr> <tr> <td>Display</td> <td>Preferred: Dual monitor, AGP card with 256MB memory. Minimum: single monitor 128MB memory.</td> </tr> <tr> <td>Network</td> <td>Minimum 10/100 GB</td> </tr> </table>	OS	Windows 2000 or XP (Professional)	Processor	Pentium. Minimum configuration: P4 2.8 GHz 1 MB cache.	Memory	2GB	Hard Disk	1 by 80 GB system disk, or 2 by 80 GB connected to Raid Storage.	Display	Preferred: Dual monitor, AGP card with 256MB memory. Minimum: single monitor 128MB memory.	Network	Minimum 10/100 GB	
OS	Windows 2000 or XP (Professional)													
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Display	Preferred: Dual monitor, AGP card with 256MB memory. Minimum: single monitor 128MB memory.													
Network	Minimum 10/100 GB													

Parts List

10 VESDA Power Supplies

	DESCRIPTION Part No.	PRICE
	<p>240 VAC to 24 VDC 1.5Amp Power Supply with space internally for 7amp/hr battery back up. This power supply is a budget unit designed to run 1 x LaserCOMPACT or 1 x LaserFOCUS (VLF-250). (PSU complies with the requirements of EN54-4).</p> <p>VPS-215</p>	
	<p>240VAC to 24 VDC 2 Amp Power Supply with space internally for 7, 12 or 14 amp/hr battery back up configurations. The front shows a Green healthy LED and a Yellow Fault LED. This power supply is designed to run 1 x LaserPLUS, LaserSCANNER or LaserFOCUS (VLF-500) or up to 2 x LaserCOMPACT detectors. The appearance of this PSU is designed to blend in with the VLP or VLS (This PSU complies with the requirements of EN54-4).</p> <p>VPS-220</p>	
	<p>240 VAC to 24 VDC 5 Amp Power Supply with space internally for up to 38 amp/hr battery back up. The front shows a Green healthy LED and a Yellow Fault LED. This PSU is intended for Sub racks or multiple detector supplies. (This PSU complies with the requirements of EN54-4).</p> <p>VPS-250</p>	
	<p>Demonstration Power Supply 2 amp</p> <p>This PSU is Not to be used for permanent installations. maximum.</p> <p>014-014</p>	

Notes:

- (1) Standby battery supply should be calculated to be in accordance with local requirements and site specifications.
- (2) A battery calculation sheet is available in the System Design manual, page Inst Det-7 and AppA-3.










Parts List

11 VESDA Spare Parts

	DESCRIPTION Part No.	PRICE
VRT-000	Remote Mounting Box with plastic cover only (Blank plate and Termination card not included).	
VSR-0000	Remote 19" Sub Rack, with 4 blank plates (modules and termination card not included).	
VSP-000	Blank plate, with VESDA logo	
VSP-001	Programmer Module	
VSP-002	LaserPLUS Display Module	
VSP-003	VESDA net Socket kit	
VSP-004	LaserSCANNER Display Module	
VSP-005	Filter Cartridge	
VSP-006	LaserPLUS Detector Chassis Assembly, includes manifold	
VSP-007	Remote Termination Card No Relays (RTC0)	
VSP-008	Remote Termination Card 7 Relays (RCT7)	
VSP-009	LaserSCANNER Chassis Assembly, includes Scanning Manifold	
VSP-011	Recess Mounting Kit for LaserPLUS or LaserSCANNER detector	
VSP-012	Recess Mounting Kit for remote single boxes	
VSP-013	Detector Cover Assembly with EMC Shields	
VSP-014	7 Relay Head Termination Card (HTC7)	
VSP-015	Aspirator for LaserPLUS & LaserSCANNER	
VSP-016	12 Relay Head Termination Card (HTC12)	
VSP-018	Filter Switch	
VSP-019	Filter Cover	
VSP-020	Cover Screw, (4 off)	
VSP-021	Metric to Imperial Pipe Adaptors, Kit of 4	
VSP-025	Filter Pack (20)	
VSP-100	Blank plate with FOK LED's 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-208	12 Relay Remote Termination Card (RCT12)	
VSP-501	Aspirator, LaserCOMPACT	
VSP-502	Compact (VN) Remote Display Module	
VSP-509	Compute lead for use with LaserCOMPACT Relay Only (RO) & VLF Version	
VSP-510	Compact (RO) Termination Card (CTC-RO)	
VSP-515	Compact (VN) Termination Card (CTC-VN)	
VSP-715	VLF Aspirator	

Parts List

12 VESDA Pipe & Fittings

		DESCRIPTION Part No.	PRICE
	PIP-001	25mm Red ABS Sampling pipe - 3m Lengths	
		Price per pack:	Pack Qty: 10 Lengths
	PIP-002	25mm Socket	
		Price Per Pack:	Pack Qty: 10
	PIP-003	25mm Socket Union	
		Price Per Pack:	Pack Qty: 1
	PIP-004	25mm to 3/4" Socket Adaptor	
		Price Per Pack:	Pack Qty: 5
	PIP-005	25mm 90° Slow Radius Bend	
		Price Per Pack:	Pack Qty: 5
	PIP-006	25mm 45° Elbow	
		Price Per Pack:	Pack Qty: 5
	PIP-007	25mm End Cap	
		Price Per Pack:	Pack Qty: 5
	PIP-008	25mm Equal Tee	
		Price Per Pack:	Pack Qty: 5
	PIP-009	25mm Pipe Clip	
		Price Per Pack:	Pack Qty: 10
Image not available	PIP-013	Pipe Ties	
		Price Per Pack:	Pack Qty: 100 Ties
Image not available	PIP-014	Pipe Cutters	
		Price Per Pack:	Pack Qty: 1

Parts List

		DESCRIPTION Part No.	PRICE	
	059-007	Conical Sampling Point Kit (c/w 2m of 10mm OD tube, Trunk adaptor, Point and decal)		
		Price per pack:	Pack Qty: 1 Kit	
	059-001	Flush Sampling Point Kit (c/w 2m of 10mm OD tube, Trunk adaptor, Poin		
		Price Per Pack:	Pack Qty: 1 Kit	
	144-013	Conical Sample Point Head Only (for 10mm OD tube)		
		Price Per Pack:	Pack Qty: 1	
	PIP-015	Flush Sample Point Head only (for 10mm OD tube)		
		Price Per Pack:	Pack Qty: 1	
	PIP-016	Trunk Adapter (for 10mm OD tube)		
		Price Per Pack:	Pack Qty: 1	
	222-059	Discreet end cap for 10mm OD tube (Clear)		
		Price Per Pack:	Pack Qty: 1	
	221-035	10mm OD Capillary Pipe		
		Price Per Pack:	Pack Qty: 30m	
Labels				
Image not available	128-014	Label - Sampling Point	Price per pack:	Roll of 100
	128-046	Label - Sampling Point Wrap Round	Price per pack:	Roll of 200
	128-015	Label - Smoke Detector Pipe	Price per pack:	Roll of 100
Test Products				
Image not available	VTT-10000	Test Transformer (Wire Burn)	Price per pack:	Pack Qty 1
	251-003	Smoke Pellets	Price per pack:	Pack Qty 6
	251-001	Smoke Test Wire	Price per pack:	Pack Qty 100m