

**VESDA<sup>®</sup>**

# LCD Programmer Product Guide

September 24, 2007

Document Number: 10194\_04

Part: 30004



## Intellectual Property and Copyright

This document includes registered and unregistered trademarks. All trademarks displayed are the trademarks of their respective owners. Your use of this document does not constitute or create a licence or any other right to use the name and/or trademark and/or label.

This document is subject to copyright owned by Xtralis AG ("Xtralis"). You agree not to copy, communicate to the public, adapt, distribute, transfer, sell, modify or publish any contents of this document without the express prior written consent of Xtralis.

## Disclaimer

The contents of this document is provided on an "as is" basis. No representation or warranty (either express or implied) is made as to the completeness, accuracy or reliability of the contents of this document. The manufacturer reserves the right to change designs or specifications without obligation and without further notice. Except as otherwise provided, all warranties, express or implied, including without limitation any implied warranties of merchantability and fitness for a particular purpose are expressly excluded.

## General Warning

This product must only be installed, configured and used strictly in accordance with the General Terms and Conditions, User Manual and product documents available from Xtralis. All proper health and safety precautions must be taken during the installation, commissioning and maintenance of the product. The system should not be connected to a power source until all the components have been installed. Proper safety precautions must be taken during tests and maintenance of the products when these are still connected to the power source. Failure to do so or tampering with the electronics inside the products can result in an electric shock causing injury or death and may cause equipment damage. Xtralis is not responsible and cannot be held accountable for any liability that may arise due to improper use of the equipment and/or failure to take proper precautions. Only persons trained through an Xtralis accredited training course can install, test and maintain the system.

## Liability

You agree to install, configure and use the products strictly in accordance with the User Manual and product documents available from Xtralis.

Xtralis is not liable to you or any other person for incidental, indirect, or consequential loss, expense or damages of any kind including without limitation, loss of business, loss of profits or loss of data arising out of your use of the products. Without limiting this general disclaimer the following specific warnings and disclaimers also apply:

### Fitness for Purpose

You agree that you have been provided with a reasonable opportunity to appraise the products and have made your own independent assessment of the fitness or suitability of the products for your purpose. You acknowledge that you have not relied on any oral or written information, representation or advice given by or on behalf of Xtralis or its representatives.

### Total Liability

To the fullest extent permitted by law that any limitation or exclusion cannot apply, the total liability of Xtralis in relation to the products is limited to:

- (i) in the case of services, the cost of having the services supplied again; or
- (ii) in the case of goods, the lowest cost of replacing the goods, acquiring equivalent goods or having the goods repaired.

### Indemnification

You agree to fully indemnify and hold Xtralis harmless for any claim, cost, demand or damage (including legal costs on a full indemnity basis) incurred or which may be incurred arising from your use of the products.

### Miscellaneous

If any provision outlined above is found to be invalid or unenforceable by a court of law, such invalidity or unenforceability will not affect the remainder which will continue in full force and effect. All rights not expressly granted are reserved.

## Document Conventions

The following typographic conventions are used in this document.

Convention	Description
<b>Bold</b>	Used to denote: emphasis Used for names of menus, menu options, toolbar buttons
<i>Italics</i>	Used to denote: references to other parts of this document or other documents. Used for the result of an action.

The following icons are used in this document

Convention	Description
	Caution: This icon is used to indicate that there is a danger to equipment. The danger could be loss of data, physical damage, or permanent corruption of configuration details.
	Warning: This icon is used to indicate that there is a danger of electric shock. This may lead to death or permanent injury.



Warning: This icon is used to indicate that there is a danger of inhaling dangerous substances. This may lead to death or permanent injury.

**Contact Us**

<b>The Americas</b>	+1 781 740 2223
<b>Asia</b>	+852 2297 2438
<b>Australia and New Zealand</b>	+61 3 9936 7000
<b>Continental Europe</b>	+41 55 285 99 99
<b>UK and the Middle East</b>	+44 1442 242 330
<b>www.xtralis.com</b>	

**Codes and Standards Information for Air Sampling Smoke Detection**

We strongly recommend that this document is read in conjunction with the appropriate local codes and standards for smoke detection and electrical connections. This document contains generic product information and some sections may not comply with all local codes and standards. In these cases, the local codes and standards must take precedence. The information below was correct at time of printing but may now be out of date, check with your local codes, standards and listings for the current restrictions.

**FCC Compliance Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures; re-orientate or relocate the receiving antenna, increase the separation between the equipment and receiver, connect the equipment to a power outlet which is on a different power circuit to the receiver or consult the dealer or an experienced radio/television technician for help.

**FDA**

This VESDA product incorporates a laser device and is classified as a Class 1 laser product that complies with FDA regulations 21 CFR 1040.10. The laser is housed in a sealed detector chamber and contains no serviceable parts. The laser emits invisible light and can be hazardous if viewed with the naked eye. Under no circumstances should the detector chamber be opened.

**FM**

3611 Hazardous Approval Warning: Exposure to some chemicals may degrade the sealing of relays used on the detector. Relays used on the detector are marked "TX2-5V", "G6S-2-5V" or "EC2-5NU".

VESDA detectors must not be connected or disconnected to a PC while the equipment is powered in an FM Division 2 hazardous (classified) location (defined by FM 3611).

**FM Approved Applications**

The product must be powered from VPS-100US-120, VPS-100US-220 or VPS-220 only.

**ONORM F3014**

ONORM F3014, transport times for all tubes (including capillaries) must not exceed 60 seconds from any hole. This means that the pre-designed pipe networks that include capillaries cannot be used.

**AS1603.8**

The performance of this product is dependent upon the configuration of the pipe network. Any extensions or modifications to the pipe network may cause the product to stop working correctly. You must check that ASPIRE2 approves alterations before making any changes. ASPIRE2 is available from your VESDA ASD distributor.

**AS1851.1 2005**

Maintenance Standards. Wherever this document and the AS1851.1 differ, AS1851.1 should be followed in preference to this document.

**European Installations**

The product must use a power supply conforming to EN54: Part 4.

Document Number: 10194\_04

Part Number: 30004

---

# Contents

<b>Scope .....</b>	<b>1</b>
<b>Introduction to LCD Programmer .....</b>	<b>1</b>
Features of LCD Programmer .....	1
<b>Product Information .....</b>	<b>1</b>
Product Specifications .....	3
The LCD Programmer Keys .....	4
<b>User Access Levels and PIN .....</b>	<b>5</b>
User Access Level .....	5
Personal Identification Number (PIN) .....	5
Hour Glass Symbol .....	5
<b>Installing and Connecting the LCD Programmer .....</b>	<b>6</b>
Installing an LCD Programmer in a Detector .....	6
Installing an LCD Programmer in a Remote Unit .....	6
Connecting the Hand Held LCD Programmer .....	6
<b>Operating the LCD Programmer .....</b>	<b>6</b>
Standby Mode .....	6
Navigating the LCD Programmer .....	7
Logging On/Off the System .....	7
Automatic Log Off .....	7
Intentional Log Off .....	8
<b>The LCD Programmer Menu .....</b>	<b>8</b>
<b>LCD Programmer Screen Description .....</b>	<b>12</b>



## 1.1 Scope

The VESDA LCD Programmer Product Guide contains comprehensive information about the features, installation, and use of the LCD Programmer.

The VESDA LCD Programmer Product Guide is written for people who are involved in the design, purchase, installation, commissioning, monitoring, maintenance, and management of a VESDA system.

## 1.2 Introduction to LCD Programmer

The LCD Programmer interfaces with most of the VESDA laser family of products through VESDAnet. The RO model LaserCOMPACT, System Relay Module and AOM cannot be programmed using the LCD Programmer.

The programmer enables management and interrogation of VESDA laser family devices connected to VESDAnet.

### Features of LCD Programmer

The LCD Programmer features:

- User friendly menu systems
- Multiple language support
- Single point of access to the entire VESDAnet network
- Alarm and fault simulation
- Wiring order display
- Communications failure location
- Password security
- Automatic logoff when inactive
- Backlit LCD screen

## 1.3 Product Information

The VESDA LCD Programmer allows the configuration, commissioning, managing and maintaining the VESDA system.

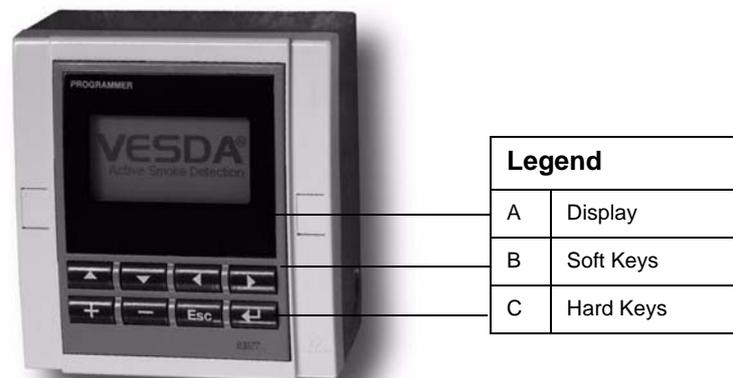
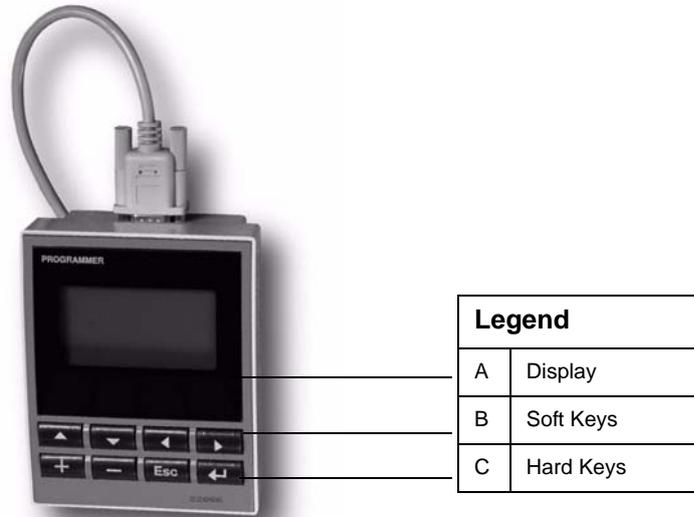


Figure 1 - The LCD Programmer Module

The LCD Programmer module can be placed either in the center or the right plate of a LaserPLUS or LaserSCANNER detector Front Cover, or in a VESDA Remote Mounting System. For further information see the *VESDA Remote Systems Product Guide*.



*Figure 2 - The Hand-held LCD Programmer*

A hand-held version of the programmer offers the flexibility of connecting to VESDAnet at multiple points.

## Product Specifications

<b>Supply Voltage</b>	18 to 30 VDC		
<b>Screen Display</b>	70 mm x 37 mm (2.75 in x 1.45 in) Full graphic display Large characters 8 lines, 21 characters per line Adjustable backlit screen with contrast control		
<b>Inactivity Time Out</b>	10 minutes (Defaults to VESDA Standby screen) Beeps at 1 minute and then continuously for 15 seconds before log off		
<b>Push Button Keys</b>	2 rows x 4 keys, each key 19 mm x 12 mm (0.75 in x 0.50 in)		
<b>User Levels</b>	User (up to 10 Users) Administrator (3 Administrators) Distributor (1 Distributor)		
<b>Default User Level IDs</b>	USR = Operator ADM = Administrator DST = Distributor		
<b>Security Access</b>	3 character User Level ID 4 digit individual Personal Identification Number (PIN) (Default PIN is available with VESDA Distributors)		
<b>Operating Temperature</b>	Ambient: 0° to 39°C (32° to 103°F)		
<b>Humidity</b>	10-99% RH, non-condensing		
<b>Maximum VESDA Devices Addressed</b>	250 devices		
<b>VESDA Devices Addressed</b>	LaserPLUS Detector and Display LaserSCANNER Detector and Display LaserCOMPACT Detector (VN Model) and Display HLI (High Level Interface) Relay Modules Remote Relays		
<b>Power Usage</b>		<b>Power at 24 VDC</b>	<b>Current at 24 VDC</b>
<b>Module</b>	Min	0.6 W	20 mA
	Max	2.3 W	80 mA
<b>Hand-held</b>	Min	1.3 W	50 mA
	Max	3.0 W	110 mA
<b>Remote</b>	Min	1.3 W	50 mA
	Max	3.0 W	110 mA
<b>Dimensions</b>	<b>Module</b>	<b>Hand Held</b>	<b>Remote</b>
mm	98 x 130 x 30	105 x 135 x 60	140 x 150 x 90

Inches	3.9 x 5.1 x 1.21	4.1 x 5.3 x 2.4	5.5 x 5.9 x 3.5
<b>Connections:</b>	Terminal Connector to Head Processor Card or to expansion connector on another VESDA device.	15 pin D-type connector. VESDAnet cable required. Connects to Detector or Remote VESDAnet Socket.	RS485 VESDAnet field wiring to screw terminals blocks (0.2 - 2.5 mm, 30 - 12 AWG)

Table 1 - LCD Programmer specifications

## The LCD Programmer Keys

The LCD Programmer has two rows of keys. The keys are used to move the cursor and to use the various functions of the LCD Programmer.

The top row of keys have dual functions and are known as “Soft Keys”. When the commands NO, BACK, YES, CONT, EXIT, QUIT, or WAIT are displayed on the LCD screen, the soft key directly below the command actions the respective command.

The bottom row are the “Hard Keys”. Each hard key has a single function. The function of the LCD Programmer keys are mentioned in Table 3, “Description of LCD Programmer keys and functions” on page 7.

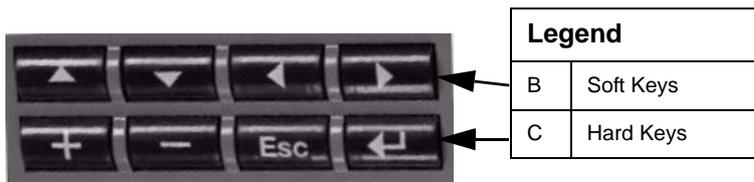


Figure 3 - LCD Programmer keys

## 1.4 User Access Levels and PIN

### User Access Level

The three user access levels allow different people to access different sets of functions. The functions that can be edited with USR, ADM and DST access levels are listed in *LCD Programmer Screen Description* on page 12.

User Level	Access Level	Functional Authorization
USR	Low	This is the USER or the OPERATOR level. The user can view the event log, change the date and the time. They can also perform selected VESDA Zone control functions.
ADM	High	At the ADMINISTRATOR level access is available to most functions. These include setting alarm thresholds, normalizing air flows, and defining the relay Configuration.
DST	Absolute	The DISTRIBUTOR level allows unlimited access to all the system commands and parameters.

Table 2 - User access levels

### Personal Identification Number (PIN)

The default PIN for each level of user is set at the factory. The distributor has access to the PINs for each level. PIN numbers are disclosed to authorized personnel attending accredited VESDA training courses.

After logging in the user has the option to change the default PIN. To guard against unauthorized access, if someone enters an incorrect PIN number three times they will not be allowed another attempt for ten minutes.

A four digit number and a VESDA contact phone number will be displayed on the screen. No further entries can be made until instructions are received from Xtralis.

### Hour Glass Symbol

After executing a command the hour glass symbol is displayed while the LCD Programmer is waiting for updated data to be loaded from the system. To carry on working while the hour glass symbol is displayed, press the Soft Key located below the **CONT** option displayed on the screen. The hour glass symbol will automatically disappear once the data is received by the LCD Programmer, if there is a large amount of information transferred to the LCD programmer this may take several minutes.

## 1.5 Installing and Connecting the LCD Programmer

### Installing an LCD Programmer in a Detector

The LCD Programmer module is snapped into the front cover of the Detector. For wiring details please refer to the product guide for that detector.

### Installing an LCD Programmer in a Remote Unit

Please refer to the *VESDA Remote Systems Product Guide* for information on how to install and connect an LCD Programmer to a remote unit or to the 19" sub rack.

### Connecting the Hand Held LCD Programmer

The hand held LCD programmer is connected to a VESDAnet socket using a 15 pin D-type connector. A VESDAnet socket is located on the head termination card in each detector. A VESDAnet socket module can be mounted in the front cover of a remote unit or a 19" sub rack.

Connecting an LCD Programmer to VESDAnet will generate a network fault. To clear the fault, select SYSTEM ALL DEVICES ↵ SYSTEMS CONTROL ↵ and RESET

## 1.6 Operating the LCD Programmer

### Standby Mode

The LCD Programmer is powered through VESDAnet. Once the LCD Programmer is powered up the VESDA logo is displayed. This screen is also displayed when the LCD Programmer is in standby mode.

## Navigating the LCD Programmer

To navigate the menu tree of the LCD Programmer, to change or view parameters, and to execute system functions, use the eight keys described in the table below.

Key	Key Type	Description	Used For
▶ ◀	Soft	Directional Key/ Soft Key Function	<ul style="list-style-type: none"> <li>Moves Cursor to the left or right of the screen</li> <li>Scrolls highlighted item left/right</li> <li>Actions a soft key question</li> </ul>
▲ ▼	Soft	Directional Key/ Soft Key Functions	<ul style="list-style-type: none"> <li>Moves the cursor up or down on the screen</li> <li>Scrolls the Menu up or down</li> <li>Actions a soft key question</li> </ul>
+	Hard	Value Increasing Action Key/Page Up	<ul style="list-style-type: none"> <li>Increases the value of the displayed number</li> <li>Adds a selected letter from the displayed alphabet list.</li> <li>Page up on some screens</li> </ul>
-	Hard	Value Decreasing Action Key/Page Down	<ul style="list-style-type: none"> <li>Decreases the value of the displayed number</li> <li>Deletes a selected letter</li> <li>Page down on some screens</li> </ul>
ESC	Hard	Backward Action Key	<ul style="list-style-type: none"> <li>Moves back up the Menu tree</li> <li>Any changes to parameters are actioned after acknowledging the check message "Do you want to save the changes?"</li> </ul>
↵	Hard	Forward Action Key	<ul style="list-style-type: none"> <li>Moves down the Menu tree by selecting the highlighted option</li> <li>Adds selected letter</li> <li>Toggles between values</li> <li>Can be used to run Normalize, Autolearn, and System/Address control commands</li> </ul>

Table 3 - Description of LCD Programmer keys and functions

## Logging On/Off the System

It is not necessary to logon to view the data.

When the LCD Programmer is in a standby mode, pressing any key will display the logon screen. To logon:

1. Against User enter the appropriate USER ID using the +/- keys to enter the letters
2. Press the ▶ key to move cursor to the PIN field
3. Enter PIN using the +/- keys
4. Use the ▶ and ◀ keys to move from one field to the next (letter or digit)
5. Press ↵ key after entering the PIN

## Automatic Log Off

For security reasons, if you do not use the LCD Programmer for ten minutes it will automatically log you off. Sixty and fifteen seconds before the programmer automatically logs you off it will display a warning message and beep. Press any key on the programmer to stop the detector from automatically logging you off.

## Intentional Log Off

To log off the system:

1. Press the ESC key until the **Log Off** warning screen is displayed
2. Confirm the **Log Off** with a YES key
3. The LCD Programmer will display the **LOGON** screen
4. Press the ESC key
5. The LCD Programmer will now be in the standby mode and display the VESDA logo.

## 1.7 The LCD Programmer Menu

A Menu Tree is presented in below. The screen numbering in the Menu Tree corresponds to the screen number in the *LCD Programmer Screen Description* on page 12.

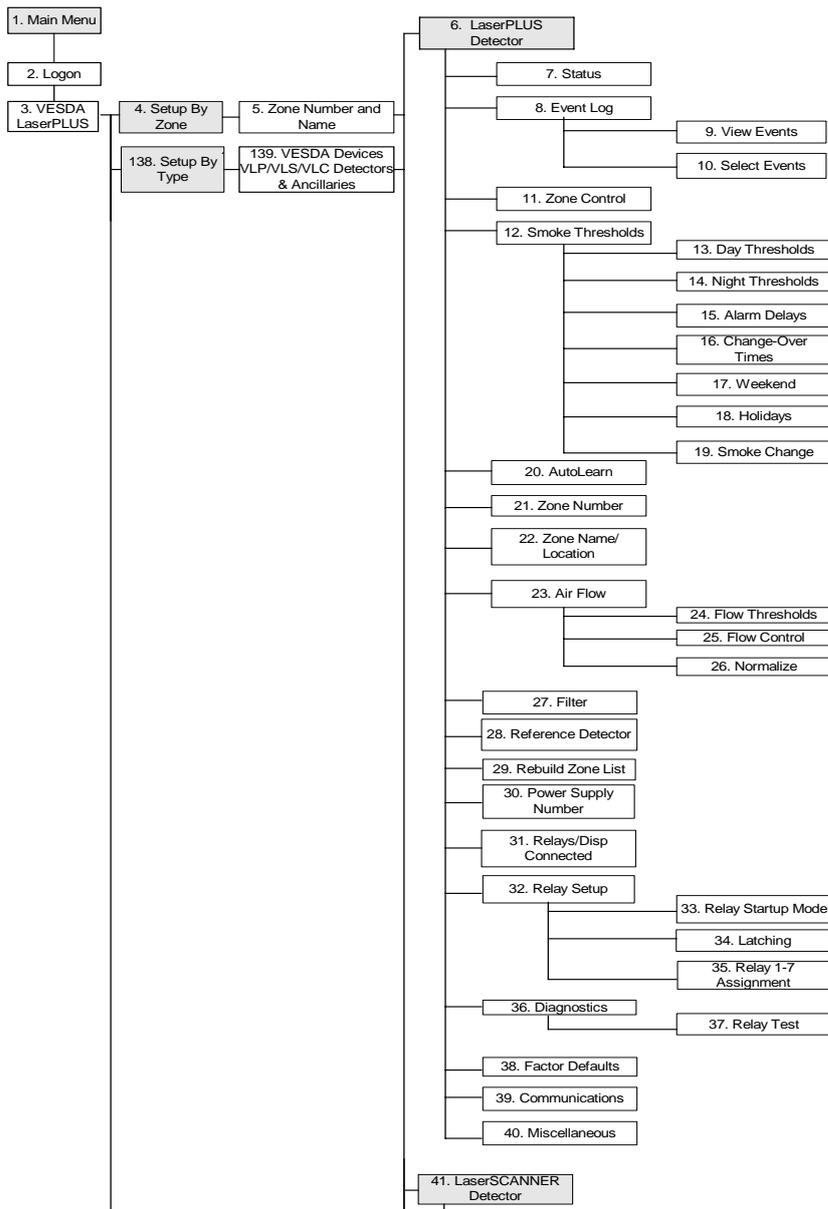


Figure 4 - The programmer menu 1 of 4

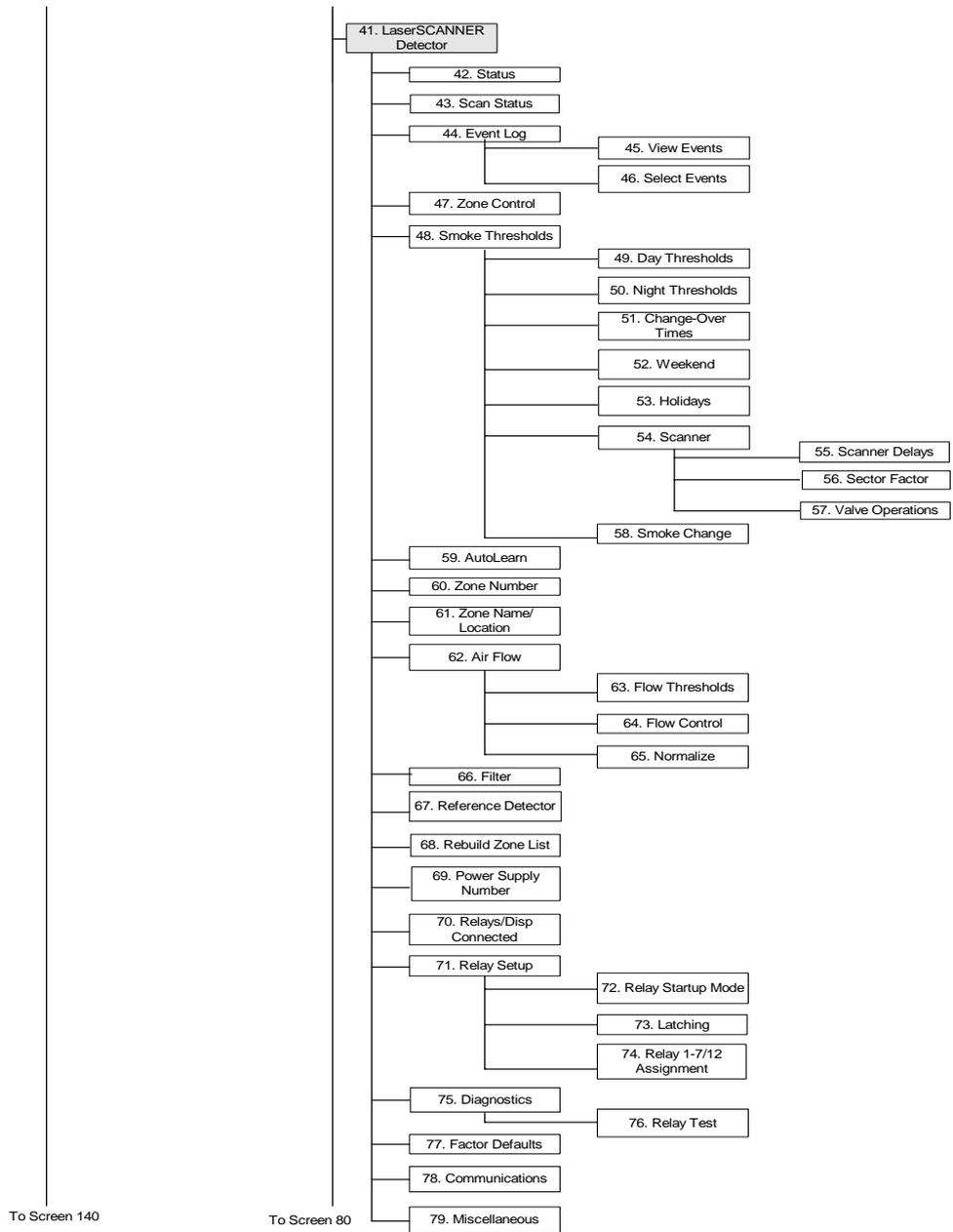


Figure 5 - The programmer menu 2 of 4

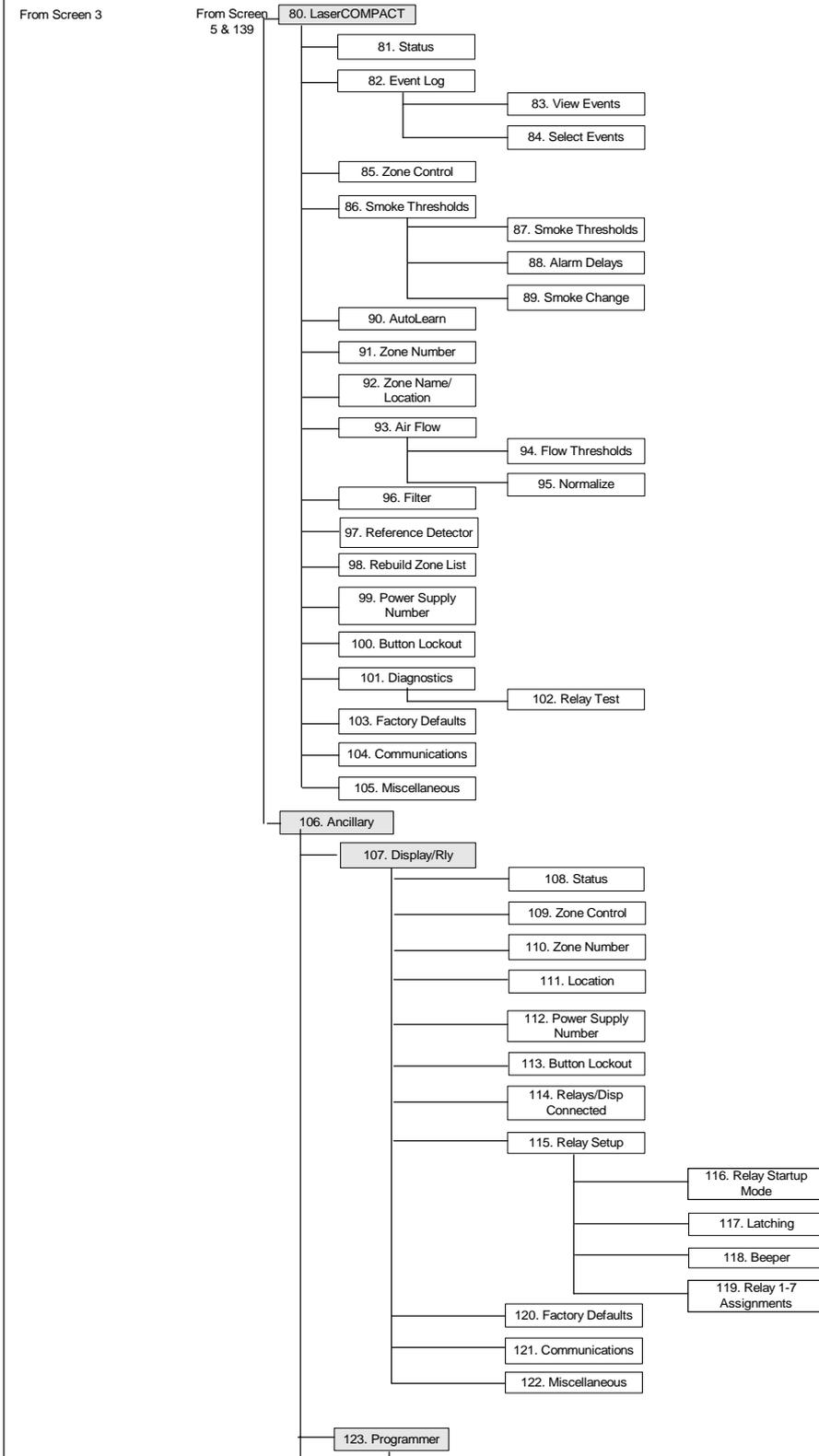


Figure 6 - The programmer menu 3 of 4

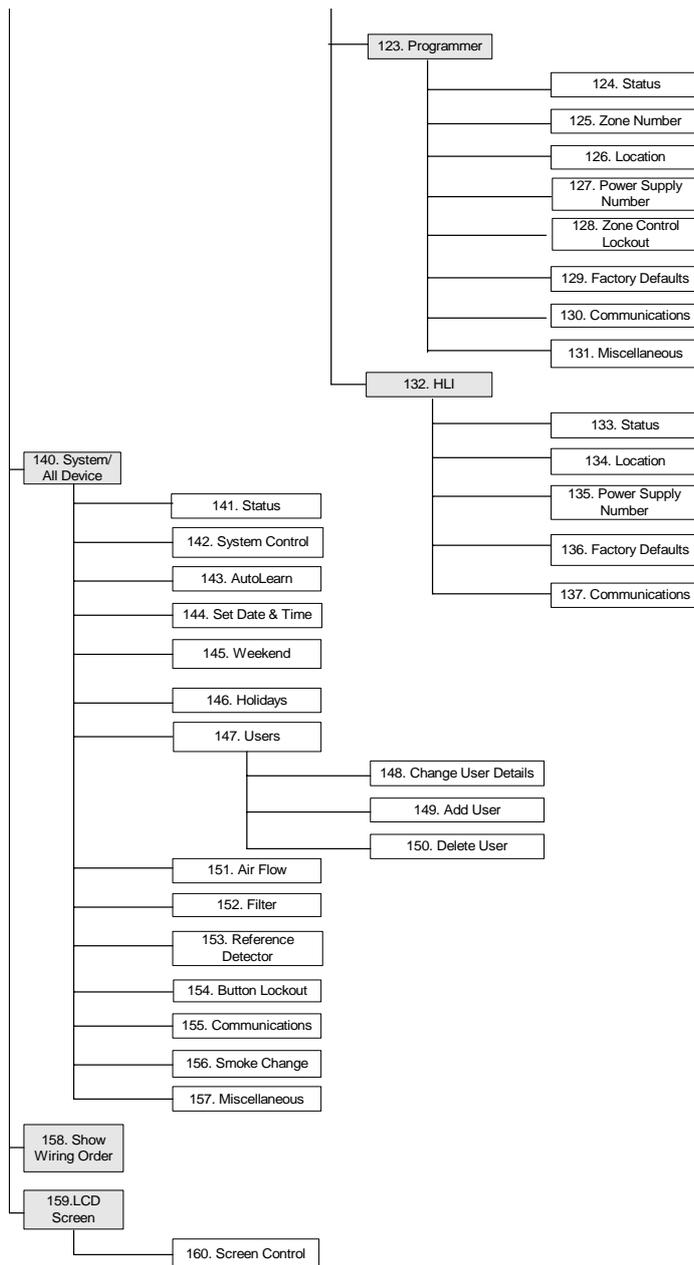


Figure 7 - The programmer menu 4 of 4

## 1.8 LCD Programmer Screen Description

Anyone with USR access is able to **read** the current values for all screens. The Minimum Access Level column shows the minimum level of access required to **change** a setting.

Scrn No.	Description	Min. Access Level
1.	<b>Main Menu</b> - This screen is displayed when the LCD Programmer is first powered up, or is in a standby mode. Press any key to go to the Logon Screen (Screen 2)	USR
2.	<b>Logon</b> - Use the ▲, ▼, + and - keys to enter the User. Use the ► and the ↵ keys to move the cursor to the PIN field. Use the + and - keys to enter the PIN	USR
3.	<b>VESDA LaserPLUS</b> - This screen displays options available for accessing and managing the parameters of VESDA Laser range of products connected to VESDAnet. The Options are: <ul style="list-style-type: none"> <li>• Setup By Address</li> <li>• Setup By Type</li> <li>• System /All Devices</li> <li>• Show Wiring Order</li> <li>• LCD Screen</li> </ul>	USR
4.	<b>Setup By Address (Setup By Zone)</b> - Once VESDA Zone numbers and names are allocated, this screen lists all the VESDA Zone numbers and names on VESDAnet. All devices without a VESDA Zone number are grouped in an unconfigured devices menu. The Ancillary devices include programmers, HLI, and SRMs.	USR
5.	<b>Address (Zone) Number and Name</b> - Lists all devices in the particular VESDA Zone.	USR
6.	<b>Address with a VESDA LaserPLUS Detector</b> - Lists functions available for accessing and managing the properties of the selected VESDA LaserPLUS detector. Select the required option and press ↵.	USR
7.	<b>Status</b> - Displays the current status of the Address <ul style="list-style-type: none"> <li>• Smoke Level - Displays the current smoke level in the VESDA Zone</li> <li>• Alarms - If the detector is in alarm mode, the alarm stage is displayed</li> <li>• Faults - List of faults relating to the device</li> <li>• Isolated - The isolated status is reported if the detector has been isolated</li> <li>• Current % Flow - Reports the current percentage of air flow through the pipes</li> <li>• SW Version - Displays the version of software installed in the detector</li> <li>• Cfg Code - This is a configuration code set during production</li> </ul>	USR
8.	<b>Event Log</b> - <ul style="list-style-type: none"> <li>• View Events</li> <li>• Select Events</li> </ul>	USR
9.	<b>View Events</b> - Lists a log of events	USR

Scrn No.	Description	Min. Access Level																																
10.	<p><b>Select Events</b> - This function assists in easier viewing of the logged events. The events can be sorted as per the categories displayed. After selecting the events, proceed to Screen 9 to view the events.</p> <ul style="list-style-type: none"> <li>• End Date - This allows viewing of events up to the date mentioned in the date field. You can input the required date in the date field.</li> <li>• End Time - This is the time up to which events will be displayed for viewing. You can input the required time in the time field.</li> <li>• Events to view - <ul style="list-style-type: none"> <li>- Smoke Level - A ✓ against Smoke Level will display logged smoke levels</li> <li>- Alarms - A ✓ against Alarms displays a log of alarms</li> <li>- Faults - A ✓ against Faults displays a log of the logged faults</li> <li>- User Action - To view a log of user actions place a ✓ against user action</li> <li>- Clear Log - This function is only available with DST access. To clear the log of events highlight Start and press ↵.</li> </ul> </li> </ul> <p>Use the + key to place a ✓ and - key to insert a X and deselect the option.</p>	ADM																																
11.	<p><b>Zone Control</b> - The four functions under Zone/Address control are the same as the functions performed by the buttons on the display module.</p> <ul style="list-style-type: none"> <li>• Mode - This controls the mode of the Multi-Segment LCD display on any display connected to that zone. Use the +, -, and the ↵ keys to change the mode <ul style="list-style-type: none"> <li>- Sensitivity - Displays the sensitivity level of Fire 1</li> <li>- Smoke - Displays the current smoke level</li> <li>- Address Number - Displays the assigned Address number for the detector</li> </ul> </li> <li>• Silence - Silences the beeping sound of the detector</li> <li>• Reset - Resets fire and fault conditions</li> <li>• Isolate - Starts and stops isolation of the detector</li> </ul>	USR																																
12.	<p><b>Smoke Thresholds</b> - This screen lists screens 13 to 19 as options available for setting smoke thresholds.</p>	ADM																																
13.	<p><b>Day Thresholds</b> - This screen allows viewing and changing the current Fire 2, Fire 1, Action and Alert thresholds for day time.</p> <table border="1" data-bbox="320 1317 1316 1798"> <thead> <tr> <th data-bbox="320 1317 555 1361">Parameter</th> <th data-bbox="555 1317 794 1361">Default</th> <th data-bbox="794 1317 1050 1361">Minimum</th> <th data-bbox="1050 1317 1316 1361">Maximum</th> </tr> </thead> <tbody> <tr> <td data-bbox="320 1361 555 1473" rowspan="2">Fire 2/Full Scale</td> <td data-bbox="555 1361 794 1417">2.000% obs/m</td> <td data-bbox="794 1361 1050 1417">0.020% obs/m</td> <td data-bbox="1050 1361 1316 1417">20.000% obs/m</td> </tr> <tr> <td data-bbox="555 1417 794 1473">(0.625% obs/ft)</td> <td data-bbox="794 1417 1050 1473">(0.0062% obs/ft)</td> <td data-bbox="1050 1417 1316 1473">(6.25% obs/ft)</td> </tr> <tr> <td data-bbox="320 1473 555 1585" rowspan="2">Fire 1/Fire</td> <td data-bbox="555 1473 794 1529">0.200% obs/m</td> <td data-bbox="794 1473 1050 1529">0.015% obs/m</td> <td data-bbox="1050 1473 1316 1529">2.000% obs/m</td> </tr> <tr> <td data-bbox="555 1529 794 1585">(0.0625% obs/ft)</td> <td data-bbox="794 1529 1050 1585">(0.0046% obs/ft)</td> <td data-bbox="1050 1529 1316 1585">(0.6250% obs/ft)</td> </tr> <tr> <td data-bbox="320 1585 555 1697" rowspan="2">Action/Pre/Alarm</td> <td data-bbox="555 1585 794 1641">0.140% obs/m</td> <td data-bbox="794 1585 1050 1641">0.010% obs/m</td> <td data-bbox="1050 1585 1316 1641">1.995% obs/m</td> </tr> <tr> <td data-bbox="555 1641 794 1697">(0.044% obs/ft)</td> <td data-bbox="794 1641 1050 1697">(0.0031 obs/ft)</td> <td data-bbox="1050 1641 1316 1697">(0.6234% obs/ft)</td> </tr> <tr> <td data-bbox="320 1697 555 1798" rowspan="2">Alert</td> <td data-bbox="555 1697 794 1753">0.080% obs/m</td> <td data-bbox="794 1697 1050 1753">0.005% obs/m</td> <td data-bbox="1050 1697 1316 1753">1.990% obs/m</td> </tr> <tr> <td data-bbox="555 1753 794 1798">(0.025% obs/ft)</td> <td data-bbox="794 1753 1050 1798">(0.0015% obs/ft)</td> <td data-bbox="1050 1753 1316 1798">(0.6218% obs/ft)</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Fire 2/Full Scale	2.000% obs/m	0.020% obs/m	20.000% obs/m	(0.625% obs/ft)	(0.0062% obs/ft)	(6.25% obs/ft)	Fire 1/Fire	0.200% obs/m	0.015% obs/m	2.000% obs/m	(0.0625% obs/ft)	(0.0046% obs/ft)	(0.6250% obs/ft)	Action/Pre/Alarm	0.140% obs/m	0.010% obs/m	1.995% obs/m	(0.044% obs/ft)	(0.0031 obs/ft)	(0.6234% obs/ft)	Alert	0.080% obs/m	0.005% obs/m	1.990% obs/m	(0.025% obs/ft)	(0.0015% obs/ft)	(0.6218% obs/ft)	ADM
Parameter	Default	Minimum	Maximum																															
Fire 2/Full Scale	2.000% obs/m	0.020% obs/m	20.000% obs/m																															
	(0.625% obs/ft)	(0.0062% obs/ft)	(6.25% obs/ft)																															
Fire 1/Fire	0.200% obs/m	0.015% obs/m	2.000% obs/m																															
	(0.0625% obs/ft)	(0.0046% obs/ft)	(0.6250% obs/ft)																															
Action/Pre/Alarm	0.140% obs/m	0.010% obs/m	1.995% obs/m																															
	(0.044% obs/ft)	(0.0031 obs/ft)	(0.6234% obs/ft)																															
Alert	0.080% obs/m	0.005% obs/m	1.990% obs/m																															
	(0.025% obs/ft)	(0.0015% obs/ft)	(0.6218% obs/ft)																															

Scrn No.	Description	Min. Access Level																																
14.	<p><b>Night Thresholds</b> - This screen allows viewing and changing the current Fire 2, Fire 1, Action and Alert thresholds for night time.</p> <table border="1" data-bbox="244 331 1233 813"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Fire 2/Full Scale</td> <td>2.000% obs/m</td> <td>0.020% obs/m</td> <td>20.000% obs/m</td> </tr> <tr> <td>(0.625% obs/ft)</td> <td>(0.0062% obs/ft)</td> <td>(6.25% obs/ft)</td> </tr> <tr> <td rowspan="2">Fire 1/Fire</td> <td>0.200% obs/m</td> <td>0.015% obs/m</td> <td>2.000% obs/m</td> </tr> <tr> <td>(0.0625% obs/ft)</td> <td>(0.0046% obs/ft)</td> <td>(0.6250% obs/ft)</td> </tr> <tr> <td rowspan="2">Action/Pre/Alarm</td> <td>0.140% obs/m</td> <td>0.010% obs/m</td> <td>1.995% obs/m</td> </tr> <tr> <td>(0.044% obs/ft)</td> <td>(0.0031 obs/ft)</td> <td>(0.6234% obs/ft)</td> </tr> <tr> <td rowspan="2">Alert</td> <td>0.080% obs/m</td> <td>0.005% obs/m</td> <td>1.990% obs/m</td> </tr> <tr> <td>(0.025% obs/ft)</td> <td>(0.0015% obs/ft)</td> <td>(0.6218% obs/ft)</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Fire 2/Full Scale	2.000% obs/m	0.020% obs/m	20.000% obs/m	(0.625% obs/ft)	(0.0062% obs/ft)	(6.25% obs/ft)	Fire 1/Fire	0.200% obs/m	0.015% obs/m	2.000% obs/m	(0.0625% obs/ft)	(0.0046% obs/ft)	(0.6250% obs/ft)	Action/Pre/Alarm	0.140% obs/m	0.010% obs/m	1.995% obs/m	(0.044% obs/ft)	(0.0031 obs/ft)	(0.6234% obs/ft)	Alert	0.080% obs/m	0.005% obs/m	1.990% obs/m	(0.025% obs/ft)	(0.0015% obs/ft)	(0.6218% obs/ft)	ADM
Parameter	Default	Minimum	Maximum																															
Fire 2/Full Scale	2.000% obs/m	0.020% obs/m	20.000% obs/m																															
	(0.625% obs/ft)	(0.0062% obs/ft)	(6.25% obs/ft)																															
Fire 1/Fire	0.200% obs/m	0.015% obs/m	2.000% obs/m																															
	(0.0625% obs/ft)	(0.0046% obs/ft)	(0.6250% obs/ft)																															
Action/Pre/Alarm	0.140% obs/m	0.010% obs/m	1.995% obs/m																															
	(0.044% obs/ft)	(0.0031 obs/ft)	(0.6234% obs/ft)																															
Alert	0.080% obs/m	0.005% obs/m	1.990% obs/m																															
	(0.025% obs/ft)	(0.0015% obs/ft)	(0.6218% obs/ft)																															
15.	<p><b>Alarm Delays</b> - In this screen insert the required time delay (in seconds) before an alarm is generated at Fire 2, Fire 1, Action, or Alert level. This screen also offers the option of simultaneous or cumulative delay times before the alarm is generated. The instant fire alarm option can be enabled or disabled in this screen.</p> <table border="1" data-bbox="272 1003 1169 1373"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Fire 2/Full Scale</td> <td>10 seconds</td> <td>0 seconds</td> <td>60 seconds</td> </tr> <tr> <td>Fire 1/Fire</td> <td>10 seconds</td> <td>0 seconds</td> <td>60 seconds</td> </tr> <tr> <td>Action/Pre/Alarm</td> <td>10 seconds</td> <td>0 seconds</td> <td>60 seconds</td> </tr> <tr> <td>Alert</td> <td>10 seconds</td> <td>0 seconds</td> <td>60 seconds</td> </tr> <tr> <td>Delay Times</td> <td>Simultaneous</td> <td>Simultaneous</td> <td>Cumulative</td> </tr> <tr> <td>Instantaneous Fire</td> <td>Disabled</td> <td>Enabled</td> <td>Disabled</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Fire 2/Full Scale	10 seconds	0 seconds	60 seconds	Fire 1/Fire	10 seconds	0 seconds	60 seconds	Action/Pre/Alarm	10 seconds	0 seconds	60 seconds	Alert	10 seconds	0 seconds	60 seconds	Delay Times	Simultaneous	Simultaneous	Cumulative	Instantaneous Fire	Disabled	Enabled	Disabled	ADM				
Parameter	Default	Minimum	Maximum																															
Fire 2/Full Scale	10 seconds	0 seconds	60 seconds																															
Fire 1/Fire	10 seconds	0 seconds	60 seconds																															
Action/Pre/Alarm	10 seconds	0 seconds	60 seconds																															
Alert	10 seconds	0 seconds	60 seconds																															
Delay Times	Simultaneous	Simultaneous	Cumulative																															
Instantaneous Fire	Disabled	Enabled	Disabled																															
16.	<p><b>Change-Over Times</b> - Insert the time to switch from day to night thresholds and night to day thresholds. By default day start and night start have been set at 07:00:00 and 19:00:00 respectively.</p>	ADM																																
17.	<p><b>Weekend</b> - Placing a <input checked="" type="checkbox"/> against the relevant week day will denote it as being weekend. By default Saturday and Sunday are set as weekend days.</p>	ADM																																
18.	<p><b>Holidays</b> - Insert the first and the last day of holidays to set the different smoke thresholds during this period.</p>	ADM																																

Scrn No.	Description	Min. Access Level																								
19.	<p><b>Smoke Change</b> - The change in obscuration rate mentioned here will register the event in the event log. This is subject to the change occurring over the interval period that is input. You can input the required obscuration and interval.</p> <ul style="list-style-type: none"> <li>• Change By</li> <li>• Min. Interval</li> </ul> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Fire 2/Full Scale</td> <td>0.02% obs/m</td> <td>0.005% obs/m</td> <td>0.2% obs/m</td> </tr> <tr> <td>(0.0062% obs/ft)</td> <td>(0.0015% obs/ft)</td> <td>(0.0625% obs/ft)</td> </tr> <tr> <td>Min. Interval</td> <td>2 seconds</td> <td>2 seconds</td> <td>10 seconds</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Fire 2/Full Scale	0.02% obs/m	0.005% obs/m	0.2% obs/m	(0.0062% obs/ft)	(0.0015% obs/ft)	(0.0625% obs/ft)	Min. Interval	2 seconds	2 seconds	10 seconds	ADM DST									
Parameter	Default	Minimum	Maximum																							
Fire 2/Full Scale	0.02% obs/m	0.005% obs/m	0.2% obs/m																							
	(0.0062% obs/ft)	(0.0015% obs/ft)	(0.0625% obs/ft)																							
Min. Interval	2 seconds	2 seconds	10 seconds																							
20.	<p><b>AutoLearn</b> - The AutoLearn function will automatically set the fire thresholds. The detector measures the ambient smoke level over the set period and will establish the smoke and alarm thresholds accordingly. Enter the number of days, hours and minutes over which the AutoLearn function is to apply.</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td rowspan="3">AutoLearn</td> <td>14 days</td> <td>0 days</td> <td>15 days</td> </tr> <tr> <td>0 hours</td> <td>0 hours</td> <td>23 hours</td> </tr> <tr> <td>0 minutes</td> <td>15 minutes</td> <td>59 minutes</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	AutoLearn	14 days	0 days	15 days	0 hours	0 hours	23 hours	0 minutes	15 minutes	59 minutes	ADM										
Parameter	Default	Minimum	Maximum																							
AutoLearn	14 days	0 days	15 days																							
	0 hours	0 hours	23 hours																							
	0 minutes	15 minutes	59 minutes																							
21.	<b>Address Number</b> - Assign the VESDA Zone number to the detector.	ADM																								
22.	<b>Address Name/Location</b> - Allocate a VESDA Zone name and location and assign these to the respective detector.	ADM																								
23.	<p><b>Air Flow</b> - This screen lists the options available to monitor and manage air flows.</p> <ul style="list-style-type: none"> <li>• Flow Thresholds</li> <li>• Flow Control</li> <li>• Normalize</li> </ul>	ADM																								
24.	<p><b>Flow Thresholds</b> - Input the required High Urgent, High Minor, Low Minor and Low Urgent air flow thresholds. Enter the time over which the air flow should be monitored above and below the threshold levels. An appropriate urgent or minor air flow fault will be generated once the air flow crosses the threshold and remains above or below the threshold for the period set as "Delay".</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>High Urgent</td> <td>130%</td> <td>105%</td> <td>200%</td> </tr> <tr> <td>High Minor</td> <td>120%</td> <td>105%</td> <td>200%</td> </tr> <tr> <td>Low Minor</td> <td>80%</td> <td>25%</td> <td>95%</td> </tr> <tr> <td>Low Urgent</td> <td>70%</td> <td>25%</td> <td>95%</td> </tr> <tr> <td>Delay</td> <td>0 seconds</td> <td>0 seconds</td> <td>60 seconds</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	High Urgent	130%	105%	200%	High Minor	120%	105%	200%	Low Minor	80%	25%	95%	Low Urgent	70%	25%	95%	Delay	0 seconds	0 seconds	60 seconds	ADM
Parameter	Default	Minimum	Maximum																							
High Urgent	130%	105%	200%																							
High Minor	120%	105%	200%																							
Low Minor	80%	25%	95%																							
Low Urgent	70%	25%	95%																							
Delay	0 seconds	0 seconds	60 seconds																							

Scrn No.	Description	Min. Access Level																
25.	<p><b>Flow Control</b> - Allows you to change the aspirator speed for VESDA LaserPLUS and LaserSCANNER. Enter the pipes in use by placing a ♥ against the respective pipe. Default: 3000rpm, Min. 3000rpm, Max 4200rpm</p>	ADM																
26.	<p><b>Normalize</b> - The Normalize screen displays the current air flow rates and the current raw flow for each pipe in use. To normalize the air flow highlight Start and press ↵.</p> <p><b>Note:</b> Normalizing air flow takes approximately 11 minutes. Ensure that the pipes in use have been ♥ (screen 25) before commencing normalization.</p>	ADM																
27.	<p><b>Filter</b> - Displays details on the life and usage of the filter. When the filter is replaced with a new filter, highlight Start and press ↵ to restart the dust count and due date for replacement. The service interval for filter replacements can be entered to suit the ambient conditions of the VESDA Zone in which the detector is installed.</p> <ul style="list-style-type: none"> <li>• Life Used</li> <li>• Date Due</li> <li>• Service Interval</li> <li>• New Filter</li> <li>• Dust Count</li> <li>• Dust Limit</li> </ul> <p>Default: 1825 days (5 years), Min. 1 day, Max 3655 days (10 years)</p>	ADM DST																
28.	<p><b>Reference Detector</b> - If a reference detector is connected to VESDAnet, enter the:</p> <ul style="list-style-type: none"> <li>• Reference Address Number</li> <li>• Dilution Factor - This is the factor by which the background levels have to reduce to reach the levels of the current VESDA Zone</li> <li>• Delay - This is the time taken for the current VESDA Zone to return to its ambient levels after background from the Reference Address is introduced.</li> </ul> <table border="1" data-bbox="264 1200 1233 1413"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Reference Address No</td> <td>255</td> <td>Selectable</td> <td>Selectable</td> </tr> <tr> <td>Dilution</td> <td>100%</td> <td>1%</td> <td>100%</td> </tr> <tr> <td>Delay</td> <td>2 minutes</td> <td>0 minutes</td> <td>15 minutes</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Reference Address No	255	Selectable	Selectable	Dilution	100%	1%	100%	Delay	2 minutes	0 minutes	15 minutes	ADM
Parameter	Default	Minimum	Maximum															
Reference Address No	255	Selectable	Selectable															
Dilution	100%	1%	100%															
Delay	2 minutes	0 minutes	15 minutes															
29.	<p><b>Rebuild Address List</b> - Highlight Start and press ↵ to rebuild the Address List. Use this option to rebuild the Address List after removing a display module assigned to the detector.</p>	ADM																
30.	<p><b>Power Supply Number</b> - Input the number of the power supply that is assigned to the detector. If the Intelligent Power Supply is not being used enter "0".</p>	ADM																
31.	<p><b>Relays/Disp Connected</b> - This screen displays the number of relays connected to the detector. It also indicates if the detector is a LaserSCANNER.</p> <p>Default: None (display only), Min./Max Selectable</p>	ADM																
32.	<p><b>Relay Setup</b> - This screen and its sub-menus allow setting up the assignment of functions to the relays and to energize or de-energize the relays.</p>	ADM																

Scrn No.	Description	Min. Access Level																				
33.	<p><b>Relay Startup Mode</b> - Displays the energize/de-energized condition for each relay. If required, use the <b>+</b> - and <b>↓</b> keys to change the energized/de-energized state of relays.</p> <table border="1" data-bbox="568 383 1067 591"> <thead> <tr> <th>Parameter</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>Relay Startup Mode</td> <td></td> </tr> <tr> <td>Relay 2 &amp; 3 energized</td> <td>Energized</td> </tr> <tr> <td>Relays 1, 4-7 (4-12)</td> <td>Energized</td> </tr> </tbody> </table>	Parameter	Default	Relay Startup Mode		Relay 2 & 3 energized	Energized	Relays 1, 4-7 (4-12)	Energized	ADM												
Parameter	Default																					
Relay Startup Mode																						
Relay 2 & 3 energized	Energized																					
Relays 1, 4-7 (4-12)	Energized																					
34.	<p><b>Latching</b> - This screen displays the latched/unlatched relay condition for different levels of alarms and faults. In the latched condition the reporting of an alarm or a fault continues to be reported even after the event is over. Manual intervention is necessary to reset. If the condition is unlatched the reporting of the condition automatically stops once the event is over. To latch an alarm or a fault place a <b>✓</b> against the respective alarm level or fault. The isolate function is fixed for unlatched and cannot be changed.</p> <table border="1" data-bbox="580 864 1080 1393"> <thead> <tr> <th>Parameter</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>Latching</td> <td></td> </tr> <tr> <td>Sector (1-4)</td> <td>N/A</td> </tr> <tr> <td>Fire 2</td> <td>Latched</td> </tr> <tr> <td>Fire 1</td> <td>Latched</td> </tr> <tr> <td>Alert</td> <td>Latched</td> </tr> <tr> <td>Scanning</td> <td>N/A</td> </tr> <tr> <td>Urgent Fault</td> <td>Latched</td> </tr> <tr> <td>Minor Fault</td> <td>Latched</td> </tr> <tr> <td>Isolate</td> <td>Unlatched</td> </tr> </tbody> </table>	Parameter	Default	Latching		Sector (1-4)	N/A	Fire 2	Latched	Fire 1	Latched	Alert	Latched	Scanning	N/A	Urgent Fault	Latched	Minor Fault	Latched	Isolate	Unlatched	ADM
Parameter	Default																					
Latching																						
Sector (1-4)	N/A																					
Fire 2	Latched																					
Fire 1	Latched																					
Alert	Latched																					
Scanning	N/A																					
Urgent Fault	Latched																					
Minor Fault	Latched																					
Isolate	Unlatched																					

Scrn No.	Description	Min. Access Level																				
35.	<p><b>Relay Assignments</b> - Each relay is allocated a screen. In their respective screens assign the relevant alarm, fault or isolate function. Multiple functions can be assigned to each relay. Relay 3 and relay 6 are permanently assigned to Urgent Fault and Fire 1 functions respectively. Additional functions may be assigned to Relays 3 and 6. Use the ↵ key to assign or de-assign functions.</p> <table border="1" data-bbox="499 434 999 860"> <thead> <tr> <th>Parameter</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>Fire 2</td> <td>Relay 7</td> </tr> <tr> <td>Fire 1</td> <td>Relay 6</td> </tr> <tr> <td>Action</td> <td>Relay 5</td> </tr> <tr> <td>Alert</td> <td>Relay 4</td> </tr> <tr> <td>Urgent Fault</td> <td>Relay 3</td> </tr> <tr> <td>Minor Fault</td> <td>Relay 2</td> </tr> <tr> <td>Isolate</td> <td>Relay 1</td> </tr> </tbody> </table>	Parameter	Default	Fire 2	Relay 7	Fire 1	Relay 6	Action	Relay 5	Alert	Relay 4	Urgent Fault	Relay 3	Minor Fault	Relay 2	Isolate	Relay 1	ADM				
Parameter	Default																					
Fire 2	Relay 7																					
Fire 1	Relay 6																					
Action	Relay 5																					
Alert	Relay 4																					
Urgent Fault	Relay 3																					
Minor Fault	Relay 2																					
Isolate	Relay 1																					
36.	<p><b>Diagnostics</b> - It is possible to conduct alarm and fault tests through sub-menus of this screen.</p> <ul style="list-style-type: none"> <li>Alarm Test - This causes the detector to generate a Fire 2 condition</li> <li>Fault Test - This causes a system fault for 30 seconds</li> <li>Flow Fault - This turns the aspirator off for 30 seconds causing an air flow fault</li> <li>Relay Test - (Refer to Screen 37).</li> </ul>	ADM																				
37.	<p><b>Relay Test</b> - This allows testing each relay by turning it ON and OFF.</p>	ADM																				
38.	<p><b>Factory Defaults</b> -</p> <ul style="list-style-type: none"> <li>Factory Defaults - To restore factory defaults, highlight Restore and press ↵.</li> <li>Defaults OK - Highlighting Start and pressing ↵ will acknowledge Factory Default settings and clear faults 12, 30, 31, 33, 34, 35, 38, 57, 68 and 72.</li> </ul>	DST ADM																				
39.	<p><b>Communications</b> - The Communications screen allows settings for:</p> <ul style="list-style-type: none"> <li>Net Delay - This function sets the maximum time for a message to travel around the network and return to the originating device. If the message does not return within the prescribed time, it is presumed lost and will be resent</li> <li>Pref. Port - This allows you to assign a preferred port for communication</li> <li>Health Check - This function sets the frequency of health-check messages sent around the system</li> <li>Open-ended - In an open-ended VESDAnet loop select the port that is not connected to the VESDAnet loop.</li> </ul> <table border="1" data-bbox="260 1659 1238 1924"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Network delay</td> <td>15 seconds</td> <td>10 seconds</td> <td>45 seconds</td> </tr> <tr> <td>Preferred port</td> <td>A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Health check</td> <td>45 seconds</td> <td>40 seconds</td> <td>60 seconds</td> </tr> <tr> <td>Open - ended</td> <td>none</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Network delay	15 seconds	10 seconds	45 seconds	Preferred port	A	N/A	N/A	Health check	45 seconds	40 seconds	60 seconds	Open - ended	none	N/A	N/A	DST
Parameter	Default	Minimum	Maximum																			
Network delay	15 seconds	10 seconds	45 seconds																			
Preferred port	A	N/A	N/A																			
Health check	45 seconds	40 seconds	60 seconds																			
Open - ended	none	N/A	N/A																			

Scrn No.	Description	Min. Access Level								
40.	<p><b>Miscellaneous</b> -</p> <ul style="list-style-type: none"> <li>• UL Version - A ✓ against this indicates that the device is set to meet UL specifications.</li> <li>• Latch Alarms - This provides a YES/NO option to latch/unlatch all Alarms</li> <li>• Latch Faults - This provides a YES/NO option to latch/unlatch all Faults</li> <li>• GP Input - The GP Input permits setting the general purpose input functions. For details on GPI functions please refer to the VESDA <i>LaserPLUS Detector Guide</i>.</li> </ul> <table border="1" data-bbox="564 528 1064 741" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Parameter</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>UL Version</td> <td>Enabled</td> </tr> <tr> <td>Latch Alarm</td> <td>Enabled</td> </tr> <tr> <td>Latch Fault</td> <td>Enabled</td> </tr> </tbody> </table>	Parameter	Default	UL Version	Enabled	Latch Alarm	Enabled	Latch Fault	Enabled	ADM DST
Parameter	Default									
UL Version	Enabled									
Latch Alarm	Enabled									
Latch Fault	Enabled									
41.	<p><b>LaserSCANNER Detector</b> - Lists functions available for accessing and managing the properties of the selected VESDA LaserSCANNER detector. Select the required option and press ↵.</p>	USR								
42.	<p><b>Status</b> - Displays the current Status of the Address</p> <ul style="list-style-type: none"> <li>• Smoke Level - Displays the current smoke level in the VESDA Zone</li> <li>• Alarms - If the VESDA Detector is in alarm mode, the alarm stage is displayed</li> <li>• Faults - List of faults generated for each device assigned to the Address</li> <li>• Isolated - The isolated status is reported if the detector has been isolated</li> <li>• Current% Flow - Reports the current percentage of air flow through each pipe</li> <li>• SW Version - Displays the Software Version in the detector</li> <li>• Cfg Code - This is a configuration code set during production</li> </ul>	USR								
43.	<p><b>Scan Status</b> - This screen shows the smoke level for each sector in use during a scan sequence (automatic or manual).</p>	USR								
44.	<p><b>Event Log</b> -</p> <ul style="list-style-type: none"> <li>• View Events</li> <li>• Select Events</li> </ul>	USR								
45.	<p><b>View Events</b> - Lists a log of events</p>	USR								

Scrn No.	Description	Min. Access Level																		
46.	<p><b>Select Events</b> - This function assists in easier viewing of the logged events. The events can be sorted as per the categories displayed. After selecting the events, proceed to Screen 45 to view the events.</p> <ul style="list-style-type: none"> <li>• End Date - This allows viewing of events up to the date mentioned in the date field. You can input the required date in the date field.</li> <li>• End Time - This is the time up to which events will be displayed for viewing. You can input the required time in the time field.</li> <li>• Events to view -                             <ul style="list-style-type: none"> <li>- Smoke Level - A ✓ against Smoke Level will display logged smoke levels</li> <li>- Alarms - A ✓ against Alarms displays a log of alarms</li> <li>- Faults - IA ✓ against Faults displays a log of the logged faults</li> <li>- User Action - To view a log of user actions place a ✓ against User Action</li> <li>- Clear Log - To clear the log of events highlight Start and press ↵.</li> </ul> </li> </ul> <p><b>Note:</b> Use the + key to place a ✓ and - key to insert a x to deselect the option.</p> <table border="1" data-bbox="491 745 991 1099" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Parameter</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>Select Events</td> <td>Selectable</td> </tr> <tr> <td>end date</td> <td>Selectable</td> </tr> <tr> <td>end time</td> <td>Selectable</td> </tr> <tr> <td>Events to View</td> <td></td> </tr> <tr> <td>Smoke Level</td> <td>Enabled</td> </tr> <tr> <td>Alarms</td> <td>Enabled</td> </tr> <tr> <td>Faults</td> <td>Enabled</td> </tr> <tr> <td>User Action</td> <td>Enabled</td> </tr> </tbody> </table>	Parameter	Default	Select Events	Selectable	end date	Selectable	end time	Selectable	Events to View		Smoke Level	Enabled	Alarms	Enabled	Faults	Enabled	User Action	Enabled	ADM DST
Parameter	Default																			
Select Events	Selectable																			
end date	Selectable																			
end time	Selectable																			
Events to View																				
Smoke Level	Enabled																			
Alarms	Enabled																			
Faults	Enabled																			
User Action	Enabled																			
47.	<p><b>Address Control</b> - The four functions under Address Control are the same as the functions performed by the buttons on the VESDA Laser Display Module.</p> <ul style="list-style-type: none"> <li>• Mode - This controls the mode of the LCD Numerical display on the VESDA Laser Display. Use the +, -, and the ↵ keys to change the mode                             <ul style="list-style-type: none"> <li>- Sensitivity - Displays the sensitivity level</li> <li>- Smoke - Displays the current smoke level</li> <li>- Address Number - Displays the assigned VESDA Zone number for the detector</li> <li>- Current Sector - Displays the First Alarm Sector in a VESDA LaserSCANNER Detector</li> </ul> </li> <li>• Silence - Silences the beeping sound of the detector</li> <li>• Reset - Resets faults</li> <li>• Isolate - Starts and stops isolation of the detector</li> </ul>	USR																		
48.	<p><b>Smoke Thresholds</b> - This screen lists screens 49 to 58 as options available for setting Smoke Thresholds.</p>	ADM																		
49.	<p><b>Day Thresholds</b> - This screen allows viewing and changing the current Fire 2, Fire 1, Action and Alert thresholds for day time.</p>	ADM																		

Scrn No.	Description	Min. Access Level																																
50.	<p><b>Night Thresholds</b> - This screen allows viewing and changing the current Fire 2, Fire 1, Action and Alert thresholds for night time.</p> <table border="1" data-bbox="352 342 1275 819"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Fire 2</td> <td>2.000% obs/m</td> <td>0.020% obs/m</td> <td>20.000% obs/m</td> </tr> <tr> <td>(0.625% obs/ft)</td> <td>(0.0062% obs/ft)</td> <td>(6.25% obs/ft)</td> </tr> <tr> <td rowspan="2">Fire 1</td> <td>0.200% obs/m</td> <td>0.015% obs/m</td> <td>2.000% obs/m</td> </tr> <tr> <td>(0.0625% obs/ft)</td> <td>(0.0046% obs/ft)</td> <td>(0.6250% obs/ft)</td> </tr> <tr> <td rowspan="2">Action/Pre/Alarm</td> <td>0.140% obs/m</td> <td>0.010% obs/m</td> <td>1.995% obs/m</td> </tr> <tr> <td>(0.044% obs/ft)</td> <td>(0.0031 obs/ft)</td> <td>(0.6234% obs/ft)</td> </tr> <tr> <td rowspan="2">Alert</td> <td>0.080% obs/m</td> <td>0.005% obs/m</td> <td>1.990% obs/m</td> </tr> <tr> <td>(0.025% obs/ft)</td> <td>(0.0015% obs/ft)</td> <td>(0.6218% obs/ft)</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Fire 2	2.000% obs/m	0.020% obs/m	20.000% obs/m	(0.625% obs/ft)	(0.0062% obs/ft)	(6.25% obs/ft)	Fire 1	0.200% obs/m	0.015% obs/m	2.000% obs/m	(0.0625% obs/ft)	(0.0046% obs/ft)	(0.6250% obs/ft)	Action/Pre/Alarm	0.140% obs/m	0.010% obs/m	1.995% obs/m	(0.044% obs/ft)	(0.0031 obs/ft)	(0.6234% obs/ft)	Alert	0.080% obs/m	0.005% obs/m	1.990% obs/m	(0.025% obs/ft)	(0.0015% obs/ft)	(0.6218% obs/ft)	ADM
Parameter	Default	Minimum	Maximum																															
Fire 2	2.000% obs/m	0.020% obs/m	20.000% obs/m																															
	(0.625% obs/ft)	(0.0062% obs/ft)	(6.25% obs/ft)																															
Fire 1	0.200% obs/m	0.015% obs/m	2.000% obs/m																															
	(0.0625% obs/ft)	(0.0046% obs/ft)	(0.6250% obs/ft)																															
Action/Pre/Alarm	0.140% obs/m	0.010% obs/m	1.995% obs/m																															
	(0.044% obs/ft)	(0.0031 obs/ft)	(0.6234% obs/ft)																															
Alert	0.080% obs/m	0.005% obs/m	1.990% obs/m																															
	(0.025% obs/ft)	(0.0015% obs/ft)	(0.6218% obs/ft)																															
51.	<p><b>Change-Over Times</b> - Insert the time to switch from day to night thresholds and night to day thresholds. Day Start and Night Start have been defaulted at 07:00:00 and 19:00:00 respectively.</p>	ADM																																
52.	<p><b>Weekend</b> - Placing a <input checked="" type="checkbox"/> against the relevant week day will denote it as being weekend. By default Saturday and Sunday are set as weekend days.</p>	ADM																																
53.	<p><b>Holidays</b> - Insert the first and the last day of holidays to set the night fire thresholds during this period.</p>	ADM																																
54.	<p><b>Scanner</b> - The Scanner Menu has 3 sub-menus for:</p> <ul style="list-style-type: none"> <li>• Scanner Delays &amp; Thresholds</li> <li>• Sector Factor (Sectors 1 to 4)</li> <li>• Valve Operations</li> </ul>	USR																																

Scrn No.	Description	Min. Access Level																																	
55.	<p><b>Delays &amp; Thresholds</b> - This screen displays the delays and thresholds for the LaserSCANNER.</p> <ul style="list-style-type: none"> <li>- Delays - The time before a LaserSCANNER will commence scanning, once the lowest threshold is reached.</li> <li>- Sector Time - The time spent looking at each sector after the initial fast scan sequence. This allows air sample from a previous pipe to clear out from the detector before it starts reading the air sample from the next pipe.</li> <li>- Thresholds - The smoke threshold for the LaserSCANNER</li> <li>- Day Threshold - The day smoke threshold for the LaserSCANNER</li> <li>- Night Threshold - The night smoke threshold for the LaserSCANNER</li> </ul> <table border="1" data-bbox="331 584 1153 1061"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Delay</td> <td>3 seconds</td> <td>0 seconds</td> <td>10 seconds</td> </tr> <tr> <td>Sector Time</td> <td>10 seconds</td> <td>8 seconds</td> <td>15 seconds</td> </tr> <tr> <td rowspan="2">Threshold</td> <td>0.02% obs/m</td> <td></td> <td></td> </tr> <tr> <td>(0.0062% obs/ft)</td> <td></td> <td></td> </tr> <tr> <td rowspan="2">Day Threshold</td> <td>0.02% obs/m</td> <td></td> <td></td> </tr> <tr> <td>(0.0062% obs/ft)</td> <td></td> <td></td> </tr> <tr> <td rowspan="2">Night Threshold</td> <td>0.02% obs/m</td> <td></td> <td></td> </tr> <tr> <td>(0.0062% obs/ft)</td> <td></td> <td></td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Delay	3 seconds	0 seconds	10 seconds	Sector Time	10 seconds	8 seconds	15 seconds	Threshold	0.02% obs/m			(0.0062% obs/ft)			Day Threshold	0.02% obs/m			(0.0062% obs/ft)			Night Threshold	0.02% obs/m			(0.0062% obs/ft)			ADM
Parameter	Default	Minimum	Maximum																																
Delay	3 seconds	0 seconds	10 seconds																																
Sector Time	10 seconds	8 seconds	15 seconds																																
Threshold	0.02% obs/m																																		
	(0.0062% obs/ft)																																		
Day Threshold	0.02% obs/m																																		
	(0.0062% obs/ft)																																		
Night Threshold	0.02% obs/m																																		
	(0.0062% obs/ft)																																		

Scrn No.	Description	Min. Access Level																																								
56.	<p><b>Sector Factor</b> (Sectors 1 to 4) -</p> <ul style="list-style-type: none"> <li>Sector Factor - Set the sector factor between 0.5 and 2</li> </ul> <table border="1" data-bbox="448 353 1198 461"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Factor</td> <td>1.000</td> <td>0.500</td> <td>2.000</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>Day Time Thresholds for: <ul style="list-style-type: none"> <li>Fire2</li> <li>Fire 1</li> <li>Action</li> </ul> </li> <li>Alert <ul style="list-style-type: none"> <li>Night Time Thresholds for: <ul style="list-style-type: none"> <li>Fire2</li> <li>Fire 1</li> <li>Action</li> <li>Alert</li> </ul> </li> </ul> </li> </ul> <p><b>Note:</b> The Alarm Thresholds change automatically according to the entered Sector Factor.</p> <table border="1" data-bbox="371 891 1286 1373"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Fire 2</td> <td>2.000% obs/m</td> <td>0.020% obs/m</td> <td>20.000% obs/m</td> </tr> <tr> <td>(0.625% obs/ft)</td> <td>(0.0062% obs/ft)</td> <td>(6.25% obs/ft)</td> </tr> <tr> <td rowspan="2">Fire 1</td> <td>0.200% obs/m</td> <td>0.015% obs/m</td> <td>2.000% obs/m</td> </tr> <tr> <td>(0.0625% obs/ft)</td> <td>(0.0046% obs/ft)</td> <td>(0.6250% obs/ft)</td> </tr> <tr> <td rowspan="2">Action/</td> <td>0.140% obs/m</td> <td>0.010% obs/m</td> <td>1.995% obs/m</td> </tr> <tr> <td>(0.044% obs/ft)</td> <td>(0.0031 obs/ft)</td> <td>(0.6234% obs/ft)</td> </tr> <tr> <td rowspan="2">Alert</td> <td>0.080% obs/m</td> <td>0.005% obs/m</td> <td>1.990% obs/m</td> </tr> <tr> <td>(0.025% obs/ft)</td> <td>(0.0015% obs/ft)</td> <td>(0.6218% obs/ft)</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Factor	1.000	0.500	2.000	Parameter	Default	Minimum	Maximum	Fire 2	2.000% obs/m	0.020% obs/m	20.000% obs/m	(0.625% obs/ft)	(0.0062% obs/ft)	(6.25% obs/ft)	Fire 1	0.200% obs/m	0.015% obs/m	2.000% obs/m	(0.0625% obs/ft)	(0.0046% obs/ft)	(0.6250% obs/ft)	Action/	0.140% obs/m	0.010% obs/m	1.995% obs/m	(0.044% obs/ft)	(0.0031 obs/ft)	(0.6234% obs/ft)	Alert	0.080% obs/m	0.005% obs/m	1.990% obs/m	(0.025% obs/ft)	(0.0015% obs/ft)	(0.6218% obs/ft)	ADM
Parameter	Default	Minimum	Maximum																																							
Factor	1.000	0.500	2.000																																							
Parameter	Default	Minimum	Maximum																																							
Fire 2	2.000% obs/m	0.020% obs/m	20.000% obs/m																																							
	(0.625% obs/ft)	(0.0062% obs/ft)	(6.25% obs/ft)																																							
Fire 1	0.200% obs/m	0.015% obs/m	2.000% obs/m																																							
	(0.0625% obs/ft)	(0.0046% obs/ft)	(0.6250% obs/ft)																																							
Action/	0.140% obs/m	0.010% obs/m	1.995% obs/m																																							
	(0.044% obs/ft)	(0.0031 obs/ft)	(0.6234% obs/ft)																																							
Alert	0.080% obs/m	0.005% obs/m	1.990% obs/m																																							
	(0.025% obs/ft)	(0.0015% obs/ft)	(0.6218% obs/ft)																																							
57.	<p><b>Valve Operations</b> -</p> <ul style="list-style-type: none"> <li>Total Operations (for each sector)</li> <li>Operations This Week (for each sector)</li> </ul>	USR																																								
58.	<p><b>Smoke Change</b> - The change in obscuration rate mentioned here will register the event in the event log. This is subject to the change occurring over the interval period that is input. You can input the required obscuration and interval.</p> <ul style="list-style-type: none"> <li>Change By</li> <li>Min. Interval</li> </ul> <table border="1" data-bbox="414 1756 1224 1917"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Change by</td> <td>0.02%</td> <td>0.005%</td> <td>0.2% obs/ft</td> </tr> <tr> <td>Min. Interval</td> <td>2 seconds</td> <td>2 seconds</td> <td>10 seconds</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Change by	0.02%	0.005%	0.2% obs/ft	Min. Interval	2 seconds	2 seconds	10 seconds	ADM DST																												
Parameter	Default	Minimum	Maximum																																							
Change by	0.02%	0.005%	0.2% obs/ft																																							
Min. Interval	2 seconds	2 seconds	10 seconds																																							

Scrn No.	Description	Min. Access Level																								
59.	<p><b>AutoLearn</b> - The AutoLearn function allows setting the thresholds automatically. The detector measures the ambient smoke levels over the set period and will establish the smoke and alarm thresholds accordingly. Enter the number of days, hours and minutes over which the AutoLearn function is to apply.</p> <table border="1" data-bbox="312 400 1187 613"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td rowspan="3">AutoLearn</td> <td>14 days</td> <td>0 days</td> <td>15 days</td> </tr> <tr> <td>0 hours</td> <td>0 hours</td> <td>23 hours</td> </tr> <tr> <td>0 minutes</td> <td>15 minutes</td> <td>59 minutes</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	AutoLearn	14 days	0 days	15 days	0 hours	0 hours	23 hours	0 minutes	15 minutes	59 minutes	ADM										
Parameter	Default	Minimum	Maximum																							
AutoLearn	14 days	0 days	15 days																							
	0 hours	0 hours	23 hours																							
	0 minutes	15 minutes	59 minutes																							
60.	<p><b>Address Number</b> - Assign the VESDA Zone number to the detector.</p>	ADM																								
61.	<p><b>Address Name/Location</b> - Allocate a VESDA Zone name and location and assign these to the respective detector.</p>	ADM																								
62.	<p><b>Air Flow</b> - This screen lists the options available to monitor and manage air flows. It has 3 sub-menus for:</p> <ul style="list-style-type: none"> <li>• Flow Thresholds</li> <li>• Flow Control</li> <li>• Normalize</li> </ul>	ADM																								
63.	<p><b>Flow Thresholds</b> - Input the required High Urgent, High Minor, Low Minor and Low Urgent air flow thresholds. Enter the time over which the air flow should be monitored above and below the threshold levels. An appropriate urgent or minor air flow fault will be generated once the air flow crosses the threshold and remains above or below the threshold for the period set as "Delay".</p> <table border="1" data-bbox="280 1155 1219 1476"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>High Urgent</td> <td>130%</td> <td>105%</td> <td>200%</td> </tr> <tr> <td>High Minor</td> <td>120%</td> <td>105%</td> <td>200%</td> </tr> <tr> <td>Low Minor</td> <td>80%</td> <td>25%</td> <td>95%</td> </tr> <tr> <td>Low Urgent</td> <td>70%</td> <td>25%</td> <td>95%</td> </tr> <tr> <td>Delay</td> <td>0 seconds</td> <td>0 seconds</td> <td>60 seconds</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	High Urgent	130%	105%	200%	High Minor	120%	105%	200%	Low Minor	80%	25%	95%	Low Urgent	70%	25%	95%	Delay	0 seconds	0 seconds	60 seconds	ADM
Parameter	Default	Minimum	Maximum																							
High Urgent	130%	105%	200%																							
High Minor	120%	105%	200%																							
Low Minor	80%	25%	95%																							
Low Urgent	70%	25%	95%																							
Delay	0 seconds	0 seconds	60 seconds																							
64.	<p><b>Flow Control</b> - The Flow Control Screen permits changing the Aspirator speed for VESDA LaserPLUS and LaserSCANNER. Enter the Pipes in Use by placing a ✓ against the respective pipe. Default: 3000rpm, Min. 3000rpm, Max 4200rpm</p>	ADM																								
65.	<p><b>Normalize</b> - The Normalize screen displays the current air flow rates and the current raw flow for each pipe in use. To normalize the air flow highlight Start and press ↵.</p> <p><b>Note:</b> Normalizing air flow takes approximately 11 minutes. Ensure that the pipes in use have been ✓ (screen 64) before commencing normalization.</p>	ADM																								

Scrn No.	Description	Min. Access Level																
66.	<p><b>Filter</b> - Displays details on the life and usage of the filter. When the filter is replaced with a new filter, highlight Start and press <b>↓</b> to restart the dust count and due date for replacement. The service interval for filter replacements can be entered to suit the ambient conditions of the VESDA Zone in which the detector is installed.</p> <ul style="list-style-type: none"> <li>• Life Used</li> <li>• Date Due</li> <li>• Service Interval</li> <li>• New Filter</li> <li>• Dust Count</li> <li>• Dust Limit</li> </ul> <p>Default: 1825 days (5 years), Min. 1 day, Max 3655 days (10 years)</p>	ADM DST DST																
67.	<p><b>Reference Detector</b> - If a reference detector is connected to VESDAnet, enter the:</p> <ul style="list-style-type: none"> <li>• Reference Address Number</li> <li>• Dilution Factor - This is the amount of offset required from the reference detector. Setting it to 100% will cause the detector to ignore the same amount of smoke as is being detected by the reference detector. Setting it to 50% ignores half of the smoke detected at the reference detector. These settings allow you to fine tune how much of the smoke detected by the reference detector is also likely to reach each detector.</li> <li>• Delay - The amount of time it will take smoke to move from the reference detector to the other detectors.</li> </ul> <table border="1" data-bbox="371 1014 1267 1227"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Reference Address No</td> <td>255</td> <td>Selectable</td> <td>Selectable</td> </tr> <tr> <td>Dilution</td> <td>100%</td> <td>1%</td> <td>100%</td> </tr> <tr> <td>Delay</td> <td>2 minutes</td> <td>0 minutes</td> <td>15 minutes</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Reference Address No	255	Selectable	Selectable	Dilution	100%	1%	100%	Delay	2 minutes	0 minutes	15 minutes	ADM
Parameter	Default	Minimum	Maximum															
Reference Address No	255	Selectable	Selectable															
Dilution	100%	1%	100%															
Delay	2 minutes	0 minutes	15 minutes															
68.	<p><b>Rebuild Address List</b> - Highlight Start and press <b>↓</b> to rebuild the Address List. Use this option to rebuild the Address List after removing a display module assigned to the VESDA Detector.</p>	ADM																
69.	<p><b>Power Supply Number</b> - Input the number of the power supply that is assigned to the detector. If the VESDA Intelligent Power Supply is not being used enter "0".</p>	ADM																
70.	<p><b>Relays/Disp Connected</b> - This screen displays the number of relays connected to the detector. It also indicates if the detector is a LaserSCANNER.</p> <table border="1" data-bbox="520 1541 1125 1680"> <thead> <tr> <th>Parameter</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>Relay card</td> <td>None (Display only - 7/12 relay fitted)</td> </tr> </tbody> </table>	Parameter	Default	Relay card	None (Display only - 7/12 relay fitted)	ADM												
Parameter	Default																	
Relay card	None (Display only - 7/12 relay fitted)																	
71.	<p><b>Relay Setup</b> - This screen and its sub-menus allow setting up the assignment of functions to the relays and to energize or de-energize relays.</p>	ADM																

Scrn No.	Description	Min. Access Level																				
72.	<p><b>Relay Startup Mode</b> - Displays the energize/de-energized condition for each relay. If required, use the + - and press ↵ keys to change the energized/de-energized state of relays.</p> <table border="1" data-bbox="469 383 995 595"> <thead> <tr> <th>Parameter</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>Relay Startup Mode</td> <td></td> </tr> <tr> <td>Relay 2 &amp; 3 energized</td> <td>Energized</td> </tr> <tr> <td>Relays 1, 4-7 (4-12)</td> <td>De-energized</td> </tr> </tbody> </table>	Parameter	Default	Relay Startup Mode		Relay 2 & 3 energized	Energized	Relays 1, 4-7 (4-12)	De-energized	ADM												
Parameter	Default																					
Relay Startup Mode																						
Relay 2 & 3 energized	Energized																					
Relays 1, 4-7 (4-12)	De-energized																					
73.	<p><b>Latching</b> - This screen displays the latched/unlatched relay condition for different levels of alarms in each sector, faults and scanning. In the latched condition the reporting of an alarm or a fault continues to be reported even after the event is over. Manual intervention is necessary to reset. If the condition is unlatched the reporting of the condition automatically stops once the event is over. To latch an alarm or a fault place a ✓ against the respective alarm level or fault. The isolate function is fixed for unlatched and cannot be changed.</p> <table border="1" data-bbox="501 864 999 1397"> <thead> <tr> <th>Parameter</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>Latching</td> <td></td> </tr> <tr> <td>Sector (1-4)</td> <td>N/A</td> </tr> <tr> <td>Fire 2</td> <td>Latched</td> </tr> <tr> <td>Fire 1</td> <td>Latched</td> </tr> <tr> <td>Alert</td> <td>Latched</td> </tr> <tr> <td>Scanning</td> <td>N/A</td> </tr> <tr> <td>Urgent Fault</td> <td>Latched</td> </tr> <tr> <td>Minor Fault</td> <td>Latched</td> </tr> <tr> <td>Isolate</td> <td>Unlatched</td> </tr> </tbody> </table>	Parameter	Default	Latching		Sector (1-4)	N/A	Fire 2	Latched	Fire 1	Latched	Alert	Latched	Scanning	N/A	Urgent Fault	Latched	Minor Fault	Latched	Isolate	Unlatched	ADM
Parameter	Default																					
Latching																						
Sector (1-4)	N/A																					
Fire 2	Latched																					
Fire 1	Latched																					
Alert	Latched																					
Scanning	N/A																					
Urgent Fault	Latched																					
Minor Fault	Latched																					
Isolate	Unlatched																					

Scrn No.	Description	Min. Access Level																										
74.	<p><b>Relay Assignments</b> - Each relay is allocated a screen. In their respective screens assign the relevant alarm, fault, scanning or isolate function. Multiple functions can be assigned to each relay. Relay 3 and relay 6 are permanently assigned to Urgent Fault and Fire 1 functions respectively. Additional functions may be assigned to Relays 3 and 6. Use the ↵ key to assign or de-assign functions.</p> <table border="1" data-bbox="579 434 1078 1126"> <thead> <tr> <th>Parameter</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>Scanning</td> <td>Relay 12</td> </tr> <tr> <td>Sector 4</td> <td>Relay 11</td> </tr> <tr> <td>Sector 3</td> <td>Relay 10</td> </tr> <tr> <td>Sector 2</td> <td>Relay 9</td> </tr> <tr> <td>Sector 1</td> <td>Relay 8</td> </tr> <tr> <td>Fire 2</td> <td>Relay 7</td> </tr> <tr> <td>Fire 1</td> <td>Relay 6</td> </tr> <tr> <td>Action</td> <td>Relay 5</td> </tr> <tr> <td>Alert</td> <td>Relay 4</td> </tr> <tr> <td>Urgent Fault</td> <td>Relay 3</td> </tr> <tr> <td>Minor Fault</td> <td>Relay 2</td> </tr> <tr> <td>Isolate</td> <td>Relay 1</td> </tr> </tbody> </table>	Parameter	Default	Scanning	Relay 12	Sector 4	Relay 11	Sector 3	Relay 10	Sector 2	Relay 9	Sector 1	Relay 8	Fire 2	Relay 7	Fire 1	Relay 6	Action	Relay 5	Alert	Relay 4	Urgent Fault	Relay 3	Minor Fault	Relay 2	Isolate	Relay 1	ADM
Parameter	Default																											
Scanning	Relay 12																											
Sector 4	Relay 11																											
Sector 3	Relay 10																											
Sector 2	Relay 9																											
Sector 1	Relay 8																											
Fire 2	Relay 7																											
Fire 1	Relay 6																											
Action	Relay 5																											
Alert	Relay 4																											
Urgent Fault	Relay 3																											
Minor Fault	Relay 2																											
Isolate	Relay 1																											
75.	<p><b>Diagnostics</b> - It is possible to conduct alarm and fault tests through sub-menus of this screen.</p> <ul style="list-style-type: none"> <li>• Alarm Test - This causes the detector to generate a Fire 2 condition</li> <li>• Fault Test - This causes a system fault for 30 seconds</li> <li>• Flow Fault - This causes a 30 second Air Flow fault</li> <li>• Sector Test - This allows all valves to be forced closed and open</li> <li>• Scan Test - This will perform a scan test</li> <li>• Relay Test - (Refer to Screen 76).</li> </ul>	ADM																										
76.	<p><b>Relay Test</b> - This allows testing each relay by turning it ON and OFF.</p>	ADM																										
77.	<p><b>Factory Defaults</b> -</p> <ul style="list-style-type: none"> <li>• Factory Defaults - To restore factory defaults, highlight Restore and press ↵.</li> <li>• Defaults OK - Highlighting Start and pressing ↵ will acknowledge Factory Default settings and clear faults 12, 30, 31, 33, 34, 35, 38, 57, 68 and 72.</li> </ul>	DST ADM																										



Scrn No.	Description	Min. Access Level																																				
82.	<b>Event Log</b> - <ul style="list-style-type: none"> <li>View Events</li> <li>Select Events</li> </ul>	USR																																				
83.	<b>View Events</b> - Lists a log of events	USR																																				
84.	<p><b>Select Events</b> - This function assists in easier viewing of the logged events. The events can be sorted as per the categories displayed. After selecting the events, proceed to Screen 83 to view the events.</p> <ul style="list-style-type: none"> <li>End Date - This allows viewing of events up to the date mentioned in the date field. You can input the required date in the date field.</li> <li>End Time - This is the time up to which events will be displayed for viewing. You can input the required time in the time field.</li> <li>Events to view -               <ul style="list-style-type: none"> <li>Smoke Level - A ✓ against Smoke Levels will display logged smoke levels</li> <li>Alarms - To display a log of alarms place a ✓ against alarms</li> <li>Faults - Inserting a ✓ against Faults will list all the logged faults</li> <li>User Action - To view a log of user actions place a ✓ against User Action</li> <li>Clear Log - To clear the log of events highlight Start and press ↵.</li> </ul> </li> </ul> <p><b>Note:</b> Use the + key to place a ✓ and - key to insert a X and deselect the option.</p> <table border="1" data-bbox="359 922 1300 1272"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Select Events</td> <td></td> <td></td> <td></td> </tr> <tr> <td>end date</td> <td>Selectable</td> <td>Selectable</td> <td>Selectable</td> </tr> <tr> <td>end time</td> <td>Selectable</td> <td>Selectable</td> <td>Selectable</td> </tr> <tr> <td>Events to View</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Smoke Level</td> <td>Enabled</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Alarms</td> <td>Enabled</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Faults</td> <td>Enabled</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>User Action</td> <td>Enabled</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Select Events				end date	Selectable	Selectable	Selectable	end time	Selectable	Selectable	Selectable	Events to View				Smoke Level	Enabled	N/A	N/A	Alarms	Enabled	N/A	N/A	Faults	Enabled	N/A	N/A	User Action	Enabled	N/A	N/A	ADM DST
Parameter	Default	Minimum	Maximum																																			
Select Events																																						
end date	Selectable	Selectable	Selectable																																			
end time	Selectable	Selectable	Selectable																																			
Events to View																																						
Smoke Level	Enabled	N/A	N/A																																			
Alarms	Enabled	N/A	N/A																																			
Faults	Enabled	N/A	N/A																																			
User Action	Enabled	N/A	N/A																																			
85.	<p><b>Address Control</b> - The four functions under Address Control are the same as the functions performed by the buttons on the VESDA Laser Display Module.</p> <ul style="list-style-type: none"> <li>Mode - This controls the mode of the LCD Numerical display on the VESDA Laser Display. Use the +, -, and the ↵ keys to change the mode               <ul style="list-style-type: none"> <li>Sensitivity - Displays the sensitivity level</li> <li>Smoke Level - Displays the current smoke level</li> <li>Address Number - Displays the assigned VESDA Zone number for the detector</li> </ul> </li> <li>Silence - Silences beeping sound of the detector</li> <li>Reset - Resets faults</li> <li>Isolate - Starts and stops isolation of the detector</li> </ul>	USR																																				
86.	<p><b>Smoke Thresholds</b> -This screen lists sub-menus for:</p> <ul style="list-style-type: none"> <li>Smoke Thresholds</li> <li>Alarm Delays</li> <li>Smoke Change</li> </ul>	USR																																				

Scrn No.	Description	Min. Access Level																									
87.	<p><b>Smoke Thresholds</b> - This screen lists the available options for setting smoke thresholds.</p> <ul style="list-style-type: none"> <li>• Fire</li> <li>• Pre-Alarm</li> <li>• Alert</li> <li>• Overlay Alert</li> </ul> <table border="1" data-bbox="292 465 1193 864"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Fire 1/Fire</td> <td>0.200% obs/m</td> <td>0.015% obs/m</td> <td>2.000% obs/m</td> </tr> <tr> <td>(0.0625% obs/ft)</td> <td>(0.0046% obs/ft)</td> <td>(0.6250% obs/ft)</td> </tr> <tr> <td rowspan="2">Action/Pre/Alarm</td> <td>0.140% obs/m</td> <td>0.010% obs/m</td> <td>1.995% obs/m</td> </tr> <tr> <td>(0.044% obs/ft)</td> <td>(0.0031 obs/ft)</td> <td>(0.6234% obs/ft)</td> </tr> <tr> <td rowspan="2">Alert</td> <td>0.080% obs/m</td> <td>0.005% obs/m</td> <td>1.990% obs/m</td> </tr> <tr> <td>(0.025% obs/ft)</td> <td>(0.0015% obs/ft)</td> <td>(0.6218% obs/ft)</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Fire 1/Fire	0.200% obs/m	0.015% obs/m	2.000% obs/m	(0.0625% obs/ft)	(0.0046% obs/ft)	(0.6250% obs/ft)	Action/Pre/Alarm	0.140% obs/m	0.010% obs/m	1.995% obs/m	(0.044% obs/ft)	(0.0031 obs/ft)	(0.6234% obs/ft)	Alert	0.080% obs/m	0.005% obs/m	1.990% obs/m	(0.025% obs/ft)	(0.0015% obs/ft)	(0.6218% obs/ft)	ADM
Parameter	Default	Minimum	Maximum																								
Fire 1/Fire	0.200% obs/m	0.015% obs/m	2.000% obs/m																								
	(0.0625% obs/ft)	(0.0046% obs/ft)	(0.6250% obs/ft)																								
Action/Pre/Alarm	0.140% obs/m	0.010% obs/m	1.995% obs/m																								
	(0.044% obs/ft)	(0.0031 obs/ft)	(0.6234% obs/ft)																								
Alert	0.080% obs/m	0.005% obs/m	1.990% obs/m																								
	(0.025% obs/ft)	(0.0015% obs/ft)	(0.6218% obs/ft)																								
88.	<p><b>Alarm Delays</b> - In this screen insert the required time delay (in seconds) before an alarm is generated at Fire, Pre-Alarm, Alert, Overlay Alert levels. This screen also offers the option of simultaneous or cumulative delay times before the alarm is generated. The instant fire alarm option can be enabled or disabled in this screen.</p> <table border="1" data-bbox="282 1041 1181 1359"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Fire 1/Fire</td> <td>10 seconds</td> <td>0 seconds</td> <td>60 seconds</td> </tr> <tr> <td>Action/Pre/Alarm</td> <td>10 seconds</td> <td>0 seconds</td> <td>60 seconds</td> </tr> <tr> <td>Alert</td> <td>10 seconds</td> <td>0 seconds</td> <td>60 seconds</td> </tr> <tr> <td>Delay Times</td> <td>Simultaneous</td> <td>Simultaneous</td> <td>Cumulative</td> </tr> <tr> <td>Instantaneous Fire</td> <td>Disabled</td> <td>Enabled</td> <td>Disabled</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Fire 1/Fire	10 seconds	0 seconds	60 seconds	Action/Pre/Alarm	10 seconds	0 seconds	60 seconds	Alert	10 seconds	0 seconds	60 seconds	Delay Times	Simultaneous	Simultaneous	Cumulative	Instantaneous Fire	Disabled	Enabled	Disabled	ADM	
Parameter	Default	Minimum	Maximum																								
Fire 1/Fire	10 seconds	0 seconds	60 seconds																								
Action/Pre/Alarm	10 seconds	0 seconds	60 seconds																								
Alert	10 seconds	0 seconds	60 seconds																								
Delay Times	Simultaneous	Simultaneous	Cumulative																								
Instantaneous Fire	Disabled	Enabled	Disabled																								
89.	<p><b>Smoke Change</b> - The change in obscuration rate mentioned here will register the event in the event log. This is subject to the change occurring over the interval period that is input. You can input the required obscuration and interval.</p> <ul style="list-style-type: none"> <li>• Change By</li> <li>• Min. Interval</li> </ul> <table border="1" data-bbox="282 1590 1201 1800"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Change By</td> <td>0.02% obs/m</td> <td>0.005% obs/m</td> <td>0.2% obs/m</td> </tr> <tr> <td>(0.0062% obs/ft)</td> <td>(0.0015% obs/ft)</td> <td>(0.0625% obs/ft)</td> </tr> <tr> <td>Min. Interval</td> <td>2 seconds</td> <td>2 seconds</td> <td>10 seconds</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Change By	0.02% obs/m	0.005% obs/m	0.2% obs/m	(0.0062% obs/ft)	(0.0015% obs/ft)	(0.0625% obs/ft)	Min. Interval	2 seconds	2 seconds	10 seconds	ADM DST										
Parameter	Default	Minimum	Maximum																								
Change By	0.02% obs/m	0.005% obs/m	0.2% obs/m																								
	(0.0062% obs/ft)	(0.0015% obs/ft)	(0.0625% obs/ft)																								
Min. Interval	2 seconds	2 seconds	10 seconds																								

Scrn No.	Description	Min. Access Level																								
90.	<p><b>AutoLearn</b> - The AutoLearn function allows setting the thresholds automatically. The detector measures the ambient over the set period and will establish the smoke thresholds accordingly. Enter the number of days, hours and minutes over which the AutoLearn function is to run.</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td rowspan="3">AutoLearn</td> <td>14 days</td> <td>0 days</td> <td>15 days</td> </tr> <tr> <td>0 hours</td> <td>0 hours</td> <td>23 hours</td> </tr> <tr> <td>0 minutes</td> <td>15 minutes</td> <td>59 minutes</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	AutoLearn	14 days	0 days	15 days	0 hours	0 hours	23 hours	0 minutes	15 minutes	59 minutes	ADM										
Parameter	Default	Minimum	Maximum																							
AutoLearn	14 days	0 days	15 days																							
	0 hours	0 hours	23 hours																							
	0 minutes	15 minutes	59 minutes																							
91.	<b>Address Number</b> - Assign the VESDA Zone number to the detector.	ADM																								
92.	<b>Address Name/Location</b> - Allocate a VESDA Zone name and location and assign these to the respective detector.	ADM																								
93.	<p><b>Air Flow</b> - This screen lists the options available to monitor and manage air flows. It displays options for 2 sub-menus:</p> <ul style="list-style-type: none"> <li>• Flow Thresholds</li> <li>• Normalize</li> </ul>	ADM																								
94.	<p><b>Flow Thresholds</b> - Input the required High Urgent, High Minor, Low Minor and Low Urgent air flow thresholds. Enter the time over which the air flow should be monitored above and below the threshold levels. An appropriate urgent or minor air flow fault will be generated once the air flow crosses the threshold and remains above or below the threshold for the period set as "Delay".</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>High Urgent</td> <td>130%</td> <td>105%</td> <td>200%</td> </tr> <tr> <td>High Minor</td> <td>120%</td> <td>105%</td> <td>200%</td> </tr> <tr> <td>Low Minor</td> <td>80%</td> <td>25%</td> <td>95%</td> </tr> <tr> <td>Low Urgent</td> <td>70%</td> <td>25%</td> <td>95%</td> </tr> <tr> <td>Delay</td> <td>0 seconds</td> <td>0 seconds</td> <td>60 seconds</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	High Urgent	130%	105%	200%	High Minor	120%	105%	200%	Low Minor	80%	25%	95%	Low Urgent	70%	25%	95%	Delay	0 seconds	0 seconds	60 seconds	ADM
Parameter	Default	Minimum	Maximum																							
High Urgent	130%	105%	200%																							
High Minor	120%	105%	200%																							
Low Minor	80%	25%	95%																							
Low Urgent	70%	25%	95%																							
Delay	0 seconds	0 seconds	60 seconds																							
95.	<p><b>Normalize</b> - The Normalize screen displays the current air flow rates and the current raw flow for each pipe. To normalize the air flow highlight Start and pressing ↵.</p> <p><b>Note:</b> Normalizing air flow takes approximately 11 minutes.</p>	ADM																								

Scrn No.	Description	Min. Access Level																
96.	<p><b>Filter</b> - Displays details on the life and usage of the filter. When the filter is replaced with a new filter, highlight Start and press <b>↵</b> to restart the dust count and due date for replacement. The service interval for filter replacements can be entered to suit the ambient conditions of the VESDA Zone in which the detector is installed.</p> <ul style="list-style-type: none"> <li>• Life Used</li> <li>• Date Due</li> <li>• Service Interval</li> <li>• New Filter</li> <li>• Dust Count</li> <li>• Dust Limit</li> </ul> <p>Default: 1825 days (5 years), Min. 1 day, Max 3655 days (10 years)</p>	ADM DST DST																
97.	<p><b>Reference Detector</b> - If a reference detector is connected to VESDAnet, enter the:</p> <ul style="list-style-type: none"> <li>• Reference Address Number</li> <li>• Dilution Factor - This is the amount of offset required from the reference detector. Setting it to 100% will cause the detector to ignore the same amount of smoke as is being detected by the reference detector. Setting it to 50% ignores half of the smoke detected at the reference detector. These settings allow you to fine tune how much of the smoke detected by the reference detector is also likely to reach each detector.</li> <li>• Delay - The amount of time it will take smoke to move from the reference detector to the other detectors.</li> </ul> <table border="1" data-bbox="309 1014 1163 1227"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Reference Address No</td> <td>255</td> <td>Selectable</td> <td>Selectable</td> </tr> <tr> <td>Dilution</td> <td>100%</td> <td>1%</td> <td>100%</td> </tr> <tr> <td>Delay</td> <td>2 minutes</td> <td>0 minutes</td> <td>15 minutes</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Reference Address No	255	Selectable	Selectable	Dilution	100%	1%	100%	Delay	2 minutes	0 minutes	15 minutes	ADM
Parameter	Default	Minimum	Maximum															
Reference Address No	255	Selectable	Selectable															
Dilution	100%	1%	100%															
Delay	2 minutes	0 minutes	15 minutes															
98.	<p><b>Rebuild Address List</b> - Highlight start and press <b>↵</b> to rebuild the Address List. Use this option to rebuild the Address List after removing a display module assigned to the detector.</p>	ADM																
99.	<p><b>Power Supply Number</b> - Input the number of the power supply that is assigned to the detector. If the Intelligent Power Supply is not being used enter "0".</p>	ADM																
100.	<p><b>Button Lockout</b> - This screen provides the option to Lock or enable the Reset/ Isolate Button on the VESDA LaserCOMPACT.</p>	ADM																
101.	<p><b>Diagnostics</b> - It is possible to conduct alarm and fault tests through sub-menus of this screen.</p> <ul style="list-style-type: none"> <li>• Alarm Test - This causes the detector to generate a Fire condition</li> <li>• Fault Test - This causes a system fault for 30 seconds</li> <li>• Flow Fault - Turns the aspirator off for 30 seconds causing an air flow fault. (This causes the LED's to light up)</li> <li>• Lamp Test - This causes the LCDs to light up</li> <li>• Relay Test - (refer to Screen 102).</li> </ul>	ADM																
102.	<p><b>Relay Test</b> - This allows testing each relay by turning it ON and OFF.</p>	ADM																

Scrn No.	Description	Min. Access Level																				
103.	<p><b>Factory Defaults -</b></p> <ul style="list-style-type: none"> <li>Factory Defaults - To restore factory defaults, highlight Restore and press ↵.</li> <li>Defaults OK - Highlighting Start and pressing ↵ will acknowledge Factory Default settings and clear faults 12, 30, 31, 33, 34, 35, 38, 57, 68 and 72.</li> </ul>	DST  ADM																				
104.	<p><b>Communications -</b> The Communications screen allows settings for:</p> <ul style="list-style-type: none"> <li>Net Delay - This function sets the maximum time for a message to travel around the network and return to the originating device. If the message does not return within the prescribed time, it is presumed lost and will be resent</li> <li>Prof. Port - This allows you to assign a preferred port for communication</li> <li>Health Check - This function sets the frequency of health-check messages sent around the system</li> <li>Open-ended - In an open-ended VESDAnet loop select the port that is not connected to the VESDAnet loop.</li> </ul> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Network delay</td> <td>15 seconds</td> <td>10 seconds</td> <td>45 seconds</td> </tr> <tr> <td>Preferred port</td> <td>A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Health check</td> <td>45 seconds</td> <td>40 seconds</td> <td>60 seconds</td> </tr> <tr> <td>Open - ended</td> <td>none</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Network delay	15 seconds	10 seconds	45 seconds	Preferred port	A	N/A	N/A	Health check	45 seconds	40 seconds	60 seconds	Open - ended	none	N/A	N/A	DST
Parameter	Default	Minimum	Maximum																			
Network delay	15 seconds	10 seconds	45 seconds																			
Preferred port	A	N/A	N/A																			
Health check	45 seconds	40 seconds	60 seconds																			
Open - ended	none	N/A	N/A																			
105.	<p><b>Miscellaneous -</b></p> <ul style="list-style-type: none"> <li>UL Version - A ✓ against this indicates that the device is set to meet UL specifications.</li> <li>Latch Alarms - This provides a YES/NO option to latch/unlatch all Alarms</li> <li>Latch Faults - This provides a YES/NO option to latch/unlatch all Faults</li> <li>GP Input - The GP Input permits setting the general purpose input functions. For details on GPI functions please refer to the VESDA <i>LaserPLUS Detector Guide</i>.</li> </ul> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>UL Version</td> <td>Enabled</td> </tr> <tr> <td>Latch Alarm</td> <td>Enabled</td> </tr> <tr> <td>Latch Fault</td> <td>Enabled</td> </tr> </tbody> </table>	Parameter	Default	UL Version	Enabled	Latch Alarm	Enabled	Latch Fault	Enabled	ADM DST												
Parameter	Default																					
UL Version	Enabled																					
Latch Alarm	Enabled																					
Latch Fault	Enabled																					
106.	<p><b>Ancillary Devices -</b> Should be put under the same flow line as detectors. Select the device by highlighting it and press ↵.</p>	USR																				
107.	<p><b>Display/Relays -</b> Should be put under the same flow line as detectors. Select the Display/Relay and press ↵.</p>	USR																				
108.	<p><b>Status -</b> Displays the current status of the Display/Relay</p> <ul style="list-style-type: none"> <li>Faults - List of faults generated for Display/Relay connected to VESDAnet</li> <li>SW Version - Displays the software version of the Display/Relay</li> <li>Cfg Code - This is a configuration code set during production</li> </ul>	USR																				

Scrn No.	Description	Min. Access Level								
109.	<p><b>Address Control</b> - The four functions under Address Control are the same as the functions performed by the buttons on the VESDA Laser Display Module.</p> <ul style="list-style-type: none"> <li>• Mode - This controls the mode of the LCD Numerical display on the VESDA Laser Display. Use the +, -, and the ↵ key to change the mode                             <ul style="list-style-type: none"> <li>- Current Sector - Display the First Alarm Sector in LaserSCANNER Display</li> <li>- Sensitivity - Displays the sensitivity level</li> <li>- Smoke Level - Displays the current smoke level</li> <li>- Address Number - Displays the assigned VESDA Zone number for the detector</li> </ul> </li> <li>• Silence - Silences beeping sound of the detector</li> <li>• Scan - Selecting this option in a LaserSCANNER Display commences a Scan sequence of the assigned LaserSCANNER Detector</li> <li>• Reset - Resets faults</li> <li>• Isolate - Starts and stops isolation of the detector</li> </ul>	USR								
110.	<p><b>Address Number</b> - Assign the VESDA Zone number to a Laser Display/Relay.</p>	ADM								
111.	<p><b>Location</b> - Allocate a VESDA Zone name and location and assign these to the respective Laser Display/Relay.</p>	ADM								
112.	<p><b>Power Supply Number</b> - Input the number of the power supply that is assigned to the detector. If the VESDA Intelligent Power Supply is not being used enter "0".</p>	ADM								
113.	<p><b>Button Lockout</b> - This screen provides the option to Lock or enable the buttons on a VESDA Laser Display.</p>	ADM								
114.	<p><b>Relays/Disp Connected</b> - Use the screen to enter the number of relays connected to the Display. It also indicates if the detector is a LaserSCANNER.</p>	DST								
115.	<p><b>Relay Setup</b> - This displays sub-menus for:</p> <ul style="list-style-type: none"> <li>• Relay Startup Mode (only used on a display with relays assigned)</li> <li>• Latching</li> <li>• Beeper</li> <li>• Relay Assignments (only used on a display with relays assigned)</li> </ul>	ADM								
116.	<p><b>Relay Startup Mode</b> - Displays the energize/de-energized condition for each relay. If required, use the + - and ↵ keys to change the energized/de-energized state of relays.</p> <table border="1" data-bbox="475 1458 1027 1666" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Parameter</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>Relay Startup Mode</td> <td></td> </tr> <tr> <td>Relay 2 &amp; 3 energized</td> <td>Energized</td> </tr> <tr> <td>Relays 1, 4-7 (4-12)</td> <td>De-Energized</td> </tr> </tbody> </table>	Parameter	Default	Relay Startup Mode		Relay 2 & 3 energized	Energized	Relays 1, 4-7 (4-12)	De-Energized	ADM
Parameter	Default									
Relay Startup Mode										
Relay 2 & 3 energized	Energized									
Relays 1, 4-7 (4-12)	De-Energized									

Scrn No.	Description	Min. Access Level																		
117.	<p><b>Latching</b> - This screen displays the latched/unlatched relay condition for different levels of alarms in each sector, faults and scanning. In the latched condition the reporting of an alarm or a fault continues to be reported even after the event is over. Manual intervention is necessary to reset. If the condition is unlatched the reporting of the condition automatically stops once the event is over. To latch an alarm or a fault place a <input checked="" type="checkbox"/> against the respective alarm level or fault. The isolate function is fixed for unlatched and cannot be changed.</p> <table border="1" data-bbox="571 495 1070 972"> <thead> <tr> <th>Parameter</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>Sector (1-4)</td> <td>N/A</td> </tr> <tr> <td>Fire 2</td> <td>Latched</td> </tr> <tr> <td>Fire 1</td> <td>Latched</td> </tr> <tr> <td>Alert</td> <td>Latched</td> </tr> <tr> <td>Scanning</td> <td>N/A</td> </tr> <tr> <td>Urgent Fault</td> <td>Latched</td> </tr> <tr> <td>Minor Fault</td> <td>Latched</td> </tr> <tr> <td>Isolate</td> <td>Unlatched</td> </tr> </tbody> </table>	Parameter	Default	Sector (1-4)	N/A	Fire 2	Latched	Fire 1	Latched	Alert	Latched	Scanning	N/A	Urgent Fault	Latched	Minor Fault	Latched	Isolate	Unlatched	ADM
Parameter	Default																			
Sector (1-4)	N/A																			
Fire 2	Latched																			
Fire 1	Latched																			
Alert	Latched																			
Scanning	N/A																			
Urgent Fault	Latched																			
Minor Fault	Latched																			
Isolate	Unlatched																			
118.	<p><b>Beeper</b> - Placing a tick beside each of the fire and fault conditions will result in the beeper activating during this condition. If the display is allocated to a LaserSCANNER, fire conditions for individual sectors can also be chosen for beep on or off. To set a condition to beep place a <input checked="" type="checkbox"/> against the respective condition.</p> <table border="1" data-bbox="571 1144 1070 1621"> <thead> <tr> <th>Parameter</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>Sector (1-4)</td> <td>Latched</td> </tr> <tr> <td>Fire 2</td> <td>Latched</td> </tr> <tr> <td>Fire 1 Action</td> <td>Latched</td> </tr> <tr> <td>Alert</td> <td>Latched</td> </tr> <tr> <td>Scanning</td> <td>Latched</td> </tr> <tr> <td>Urgent Fault</td> <td>Latched</td> </tr> <tr> <td>Minor Fault</td> <td>Latched</td> </tr> <tr> <td>Isolate</td> <td>Latched</td> </tr> </tbody> </table>	Parameter	Default	Sector (1-4)	Latched	Fire 2	Latched	Fire 1 Action	Latched	Alert	Latched	Scanning	Latched	Urgent Fault	Latched	Minor Fault	Latched	Isolate	Latched	ADM
Parameter	Default																			
Sector (1-4)	Latched																			
Fire 2	Latched																			
Fire 1 Action	Latched																			
Alert	Latched																			
Scanning	Latched																			
Urgent Fault	Latched																			
Minor Fault	Latched																			
Isolate	Latched																			

Scrn No.	Description	Min. Access Level																										
119.	<p><b>Relay Assignments</b> - Each relay is allocated a screen. In their respective screens assign the relevant alarm, fault, scanning or isolate function. Multiple functions can be assigned to each relay. Relay 3 and relay 6 are permanently assigned to Urgent Fault and Fire 1 functions respectively. Additional functions may be assigned to Relays 3 and 6. Use the ↵ key to assign or de-assign functions.</p> <table border="1" data-bbox="497 434 999 1126"> <thead> <tr> <th>Parameter</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>Scanning</td> <td>Relay 12</td> </tr> <tr> <td>Sector 4</td> <td>Relay 11</td> </tr> <tr> <td>Sector 3</td> <td>Relay 10</td> </tr> <tr> <td>Sector 2</td> <td>Relay 9</td> </tr> <tr> <td>Sector 1</td> <td>Relay 8</td> </tr> <tr> <td>Fire 2</td> <td>Relay 7</td> </tr> <tr> <td>Fire 1</td> <td>Relay 6</td> </tr> <tr> <td>Action</td> <td>Relay 5</td> </tr> <tr> <td>Alert</td> <td>Relay 4</td> </tr> <tr> <td>Urgent Fault</td> <td>Relay 3</td> </tr> <tr> <td>Minor Fault</td> <td>Relay 2</td> </tr> <tr> <td>Isolate</td> <td>Relay 1</td> </tr> </tbody> </table>	Parameter	Default	Scanning	Relay 12	Sector 4	Relay 11	Sector 3	Relay 10	Sector 2	Relay 9	Sector 1	Relay 8	Fire 2	Relay 7	Fire 1	Relay 6	Action	Relay 5	Alert	Relay 4	Urgent Fault	Relay 3	Minor Fault	Relay 2	Isolate	Relay 1	ADM
Parameter	Default																											
Scanning	Relay 12																											
Sector 4	Relay 11																											
Sector 3	Relay 10																											
Sector 2	Relay 9																											
Sector 1	Relay 8																											
Fire 2	Relay 7																											
Fire 1	Relay 6																											
Action	Relay 5																											
Alert	Relay 4																											
Urgent Fault	Relay 3																											
Minor Fault	Relay 2																											
Isolate	Relay 1																											
120.	<p><b>Factory Defaults</b> -</p> <ul style="list-style-type: none"> <li>Factory Defaults - To restore factory defaults, highlight Restore and press ↵.</li> <li>Defaults OK - Highlighting Start and pressing ↵ will acknowledge Factory Default settings and clear faults 12, 30, 31, 33, 34, 35, 38, 57, 68 and 72.</li> </ul>	DST  ADM																										
121.	<p><b>Communications</b> - The Communications screen allows settings for:</p> <ul style="list-style-type: none"> <li>Net Delay - This function sets the maximum time for a message to travel around the network and return to the originating device. If the message does not return within the prescribed time, it is presumed lost and will be resent</li> <li>Pref. Port - This allows you to assign a preferred port for communication</li> <li>Health Check - This function sets the frequency of health-check messages sent around the system</li> <li>Open-ended - In an open ended VESDAnet loop select the port that is not connected to the VESDAnet loop.</li> </ul> <table border="1" data-bbox="260 1646 1238 1912"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Network delay</td> <td>15 seconds</td> <td>10 seconds</td> <td>45 seconds</td> </tr> <tr> <td>Preferred port</td> <td>A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Health check</td> <td>45 seconds</td> <td>40 seconds</td> <td>60 seconds</td> </tr> <tr> <td>Open - ended</td> <td>none</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Network delay	15 seconds	10 seconds	45 seconds	Preferred port	A	N/A	N/A	Health check	45 seconds	40 seconds	60 seconds	Open - ended	none	N/A	N/A	DST						
Parameter	Default	Minimum	Maximum																									
Network delay	15 seconds	10 seconds	45 seconds																									
Preferred port	A	N/A	N/A																									
Health check	45 seconds	40 seconds	60 seconds																									
Open - ended	none	N/A	N/A																									

Scrn No.	Description	Min. Access Level								
122.	<p><b>Miscellaneous -</b></p> <ul style="list-style-type: none"> <li>• Isolate remind - Provides an option to enable or disable the Beeper reminder for Isolate function</li> <li>• Latch Alarms - This provides a YES/NO option to latch/unlatch all Alarms</li> <li>• Latch Faults - This provides a YES/NO option to latch/unlatch all Faults</li> </ul> <table border="1" data-bbox="571 450 1070 663" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Parameter</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>Isolate Remind</td> <td>Enabled</td> </tr> <tr> <td>Latch Alarm</td> <td>Enabled</td> </tr> <tr> <td>Latch Fault</td> <td>Enabled</td> </tr> </tbody> </table>	Parameter	Default	Isolate Remind	Enabled	Latch Alarm	Enabled	Latch Fault	Enabled	ADM
Parameter	Default									
Isolate Remind	Enabled									
Latch Alarm	Enabled									
Latch Fault	Enabled									
123.	<b>LCD Programmer</b> - Select the LCD Programmer and press $\downarrow$ .	USR								
124.	<p><b>Status</b> - Displays the current status for:</p> <ul style="list-style-type: none"> <li>• Current User Level</li> <li>• Current Access Level</li> <li>• Faults</li> <li>• Software Version Installed</li> <li>• Configuration Code</li> </ul>	USR								
125.	<b>Address (Zone) Number</b> - If the LCD Programmer has been allocated a Address (Zone) Number, it is displayed in this screen. This is only for VLS.	ADM								
126.	<b>Location</b> - Allocate a VESDA Zone name and location and assign these to the LCD Programmer.	ADM								
127.	<b>Power Supply Number</b> - Input the number of the power supply that is assigned to the detector. If the VESDA Intelligent power supply is not being used enter "0".	ADM								
128.	<p><b>Address Control Lockout</b> - This screen allows you to lock or unlock the button functions on any Laser Display in the VESDA Zone. This stops someone logging on at an OPERATOR level from using the zone control or system control function. The buttons controlled are:</p> <ul style="list-style-type: none"> <li>• Mode/Test</li> <li>• Silence/Scan</li> <li>• Reset</li> <li>• Isolate</li> </ul>	ADM								
129.	<p><b>Factory Defaults -</b></p> <ul style="list-style-type: none"> <li>• Factory Defaults - To restore factory defaults, highlight Restore and press <math>\downarrow</math>.</li> <li>• Defaults OK - Highlighting Start and pressing <math>\downarrow</math> will acknowledge Factory Default settings and clear faults 12, 30, 31, 33, 34, 35, 38, 57, 68 and 72.</li> </ul>	DST  ADM								

Scrn No.	Description	Min. Access Level
130.	<p><b>Communications</b> - The Communications screen allows settings for:</p> <ul style="list-style-type: none"> <li>• Net Delay - This function sets the maximum time for a message to travel around the network and return to the originating device. If the message does not return within the prescribed time, it is presumed lost and will be resent</li> <li>• Pref. Port - This allows you to assign a preferred port for communication</li> <li>• Health Check - This function sets the frequency of health-check messages sent around the system</li> <li>• Open-ended - In an open ended VESDAnet loop select the port that is not connected to the VESDAnet loop.</li> </ul>	DST
131.	<p><b>Miscellaneous</b> -</p> <ul style="list-style-type: none"> <li>• UL Version - A ✓ against this indicates that the device is set to meet UL specifications.</li> <li>• Def. User - Sets the chosen user as default (the first to appear when logging on)</li> <li>• Support - Displays the contact phone number for support</li> <li>• Latch Alarms - This provides a YES/NO option to latch/unlatch all Alarms</li> <li>• Latch Faults - This provides a YES/NO option to latch/unlatch all Faults</li> </ul>	ADM ADM DST ADM ADM
132.	<b>HLI</b> - Select the HLI and press ↵.	USR
133.	<p><b>Status</b> - Displays the current status for:</p> <ul style="list-style-type: none"> <li>• Faults - Lists faults for the HLI</li> <li>• SW Version - Displays the software version of the HLI</li> <li>• Cfg Code - This is a configuration code set during production</li> <li>• Sub-Node Type - Informs the type of HLI connected to VESDAnet</li> </ul>	USR
134.	<b>Location</b> - Allocate a VESDA Zone name and location and assign these to the LCD Programmer.	ADM
135.	<b>Power Supply Number</b> - Input the number of the power supply that is assigned to the detector. If the VESDA Intelligent Power Supply is not being used enter "0".	ADM
136.	<p><b>Factory Defaults</b> -</p> <ul style="list-style-type: none"> <li>• Factory Defaults - To restore factory defaults, highlight Restore and press ↵.</li> <li>• Defaults OK - Highlighting Start and pressing ↵ will acknowledge Factory Default settings and clear faults 12, 30, 31, 33, 34, 35, 38, 57, 68 and 72.</li> </ul>	DST ADM
137.	<p><b>Communications</b> - The Communications screen allows settings for:</p> <ul style="list-style-type: none"> <li>• Net Delay - This function sets the maximum time for a message to travel around the network and return to the originating device. If the message does not return within the prescribed time, it is presumed lost and will be resent</li> <li>• Pref. Port - This allows you to assign a preferred port for communication</li> <li>• Health Check - This function sets the frequency of health-check messages sent around the system</li> <li>• Open-ended - In an open ended VESDAnet loop select the port that is not connected to the VESDAnet loop.</li> </ul>	DST
138.	<b>Setup By Type</b> - The Setup By Type selection allows accessing and managing the properties of all VESDA Laser family devices connected to VESDAnet. This screen lists all the VESDA Laser family products connected to the VESDAnet. Highlight the VESDA Laser product and press ↵.	USR

Scrn No.	Description	Min. Access Level														
139.	<p><b>VESDA Device</b> - This screen lists all devices of a particular VESDA Laser product (e.g. Each VESDA LaserPLUS detector connected to VESDAnet will be displayed with their respective unique detector number under the VLP/VLS screen). To access the device through the LCD Programmer, highlight the device and press ↵.</p> <p><b>Note:</b> For details of menu descriptions refer from “Screen Number 6, on page 12” to “Screen Number 137, on page 38.”</p>	USR														
140.	<b>System/All Devices</b> - This alternative permits setting up and managing the parameters of the entire system connected to VESDAnet.	USR														
141.	<b>Status</b> - This screen presents the current status for all the devices connected to VESDAnet. It displays the smoke level from the detector with the highest reading. The current status of Alarms and Faults for each device is listed under their respective device names.	USR														
142.	<p><b>System Control</b> - The four functions under System Control are the same as the functions performed by the buttons on the VESDA Laser Display Module.</p> <ul style="list-style-type: none"> <li>• Mode - This controls the mode of the LCD Numerical display on the VESDA Laser Display. Use the +, -, and the ↵ key to change the mode <ul style="list-style-type: none"> <li>- Current Sector - Display the First Alarm Sector in LaserSCANNER Display</li> <li>- Sensitivity - Displays the sensitivity level</li> <li>- Smoke Level - Displays the current smoke level</li> <li>- Address Number - Displays the assigned VESDA Zone number for the detector</li> </ul> </li> <li>• Silence - Silences beeping sound of the detector</li> <li>• Scan - Selecting this option in a LaserSCANNER Display commences a Scan sequence of the assigned LaserSCANNER Detector</li> <li>• Reset - Resets faults</li> <li>• Isolate - Starts and stops isolation of the detector</li> </ul>	USR														
143.	<p><b>AutoLearn</b> - The AutoLearn function allows setting the thresholds automatically. The detector measures the ambient over the set period and will establish the smoke and alarm thresholds accordingly. Enter the number of days, hours and minutes over which the AutoLearn function is to apply.</p> <table border="1" data-bbox="322 1384 1321 1597"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td rowspan="3">AutoLearn</td> <td>14 days</td> <td>0 days</td> <td>15 days</td> </tr> <tr> <td>0 hours</td> <td>0 hours</td> <td>23 hours</td> </tr> <tr> <td>0 minutes</td> <td>15 minutes</td> <td>59 minutes</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	AutoLearn	14 days	0 days	15 days	0 hours	0 hours	23 hours	0 minutes	15 minutes	59 minutes	ADM
Parameter	Default	Minimum	Maximum													
AutoLearn	14 days	0 days	15 days													
	0 hours	0 hours	23 hours													
	0 minutes	15 minutes	59 minutes													
144.	<b>Set Date &amp; Time</b> - This screen permits setting the date, time and day.	USR														
145.	<b>Weekend</b> - Placing a ✓ against the relevant week day will denote it as being weekend. By default Saturday and Sunday are set as weekend days.	ADM														
146.	<b>Holidays</b> - Insert the first and the last day of holidays to set different smoke thresholds during this period.	ADM														

Scrn No.	Description	Min. Access Level																								
147.	<p><b>Users</b> - This screen presents sub menus to display and manage user information:</p> <ul style="list-style-type: none"> <li>• Change User Details</li> <li>• Add User</li> <li>• Delete User</li> </ul>	USR																								
148.	<p><b>Change User Details</b> - This screen displays the current user ID and PIN. The User ID and PIN can be changed in this screen. The Access level cannot be changed. User details can be changed for the level at which the current User is logged on.</p>	USR/ ADM/ DST																								
149.	<p><b>Add User</b> - This screen permits adding users at the Operator and Administrator levels. Enter the User ID and PIN of the new user. Permits deleting a User at an access level below which the current user is logged on.</p>	ADM/ DST																								
150.	<p><b>Delete User</b> - Authorization for a user at the Operator or the Administrator level can be deleted in this screen. Permits deleting a User at an access level below which the current user is logged on.</p>	ADM/ DST																								
151.	<p><b>Air Flow</b> - Input the required High Urgent, High Minor, Low Minor and Low Urgent air flow thresholds. Enter the time over which the air flow should be monitored above and below the threshold levels. An appropriate urgent or minor air flow fault will be generated once the air flow crosses the threshold and remains above or below the threshold for the period set as "Delay".</p> <table border="1" data-bbox="280 949 1219 1267"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>High Urgent</td> <td>130%</td> <td>105%</td> <td>200%</td> </tr> <tr> <td>High Minor</td> <td>120%</td> <td>105%</td> <td>200%</td> </tr> <tr> <td>Low Minor</td> <td>80%</td> <td>25%</td> <td>95%</td> </tr> <tr> <td>Low Urgent</td> <td>70%</td> <td>25%</td> <td>95%</td> </tr> <tr> <td>Delay</td> <td>0 seconds</td> <td>0 seconds</td> <td>60 seconds</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	High Urgent	130%	105%	200%	High Minor	120%	105%	200%	Low Minor	80%	25%	95%	Low Urgent	70%	25%	95%	Delay	0 seconds	0 seconds	60 seconds	ADM
Parameter	Default	Minimum	Maximum																							
High Urgent	130%	105%	200%																							
High Minor	120%	105%	200%																							
Low Minor	80%	25%	95%																							
Low Urgent	70%	25%	95%																							
Delay	0 seconds	0 seconds	60 seconds																							
152.	<p><b>Filter</b> - Set the service interval for changing the filter in this screen.</p>	ADM																								
153.	<p><b>Reference Detector</b> - If a reference detector is connected to VESDAnet, enter the:</p> <ul style="list-style-type: none"> <li>• Reference Address Number</li> <li>• Dilution Factor - This is the factor by which the background levels have to reduce to reach the levels of the current VESDA Zone</li> <li>• Delay - This is the time taken for the current VESDA Zone to return to its ambient levels after background from the Reference Address is introduced.</li> </ul> <table border="1" data-bbox="264 1583 1235 1796"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Reference Address No</td> <td>255</td> <td>Selectable</td> <td>Selectable</td> </tr> <tr> <td>Dilution</td> <td>100%</td> <td>1%</td> <td>100%</td> </tr> <tr> <td>Delay</td> <td>2 minutes</td> <td>0 minutes</td> <td>15 minutes</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Reference Address No	255	Selectable	Selectable	Dilution	100%	1%	100%	Delay	2 minutes	0 minutes	15 minutes	ADM								
Parameter	Default	Minimum	Maximum																							
Reference Address No	255	Selectable	Selectable																							
Dilution	100%	1%	100%																							
Delay	2 minutes	0 minutes	15 minutes																							
154.	<p><b>Button Lockout</b> - This screen provides the option to Lock or enable the buttons on all VESDA Laser Display connected to VESDAnet.</p>	ADM																								

Scrn No.	Description	Min. Access Level																				
155.	<p><b>Communications</b> - The Communications screen allows settings for:</p> <ul style="list-style-type: none"> <li>• Net Delay - This function sets the maximum time for a message to travel around the network and return to the originating device. If the message does not return within the prescribed time, it is presumed lost and will be resent</li> <li>• Pref. Port - This allows you to assign a preferred port for communication</li> <li>• Health Check - This function sets the frequency of health-check messages sent around the system.</li> </ul> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Network delay</td> <td>15 seconds</td> <td>10 seconds</td> <td>45 seconds</td> </tr> <tr> <td>Preferred port</td> <td>A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Health check</td> <td>45 seconds</td> <td>40 seconds</td> <td>60 seconds</td> </tr> <tr> <td>Open - ended</td> <td>none</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Network delay	15 seconds	10 seconds	45 seconds	Preferred port	A	N/A	N/A	Health check	45 seconds	40 seconds	60 seconds	Open - ended	none	N/A	N/A	DST
Parameter	Default	Minimum	Maximum																			
Network delay	15 seconds	10 seconds	45 seconds																			
Preferred port	A	N/A	N/A																			
Health check	45 seconds	40 seconds	60 seconds																			
Open - ended	none	N/A	N/A																			
156.	<p><b>Smoke Change</b> - This screen sets the minimum interval over which a change in the obscuration rate should occur before an alarm is triggered, or the event is registered in the Event Log. You can enter the required interval.</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Default</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>Min. Interval</td> <td>2 seconds</td> <td>2 seconds</td> <td>10 seconds</td> </tr> </tbody> </table>	Parameter	Default	Minimum	Maximum	Min. Interval	2 seconds	2 seconds	10 seconds	DST												
Parameter	Default	Minimum	Maximum																			
Min. Interval	2 seconds	2 seconds	10 seconds																			
157.	<p><b>Miscellaneous</b> -</p> <ul style="list-style-type: none"> <li>• Units - This gives the user an option to enter and display data in S.I. (International System of Units), or U.S. (Us Imperial measurements)</li> <li>• UL Version - A <input checked="" type="checkbox"/> against this indicates that the Devices on the system are set to meet UL specifications.</li> <li>• Isolate Remind - Provides an option to enable or disable the reminder beeper when the Isolate function is enabled</li> <li>• Support - Displays the contact phone number for support</li> <li>• Device ID - This provides an option to Name and Number, Name Only or Number Only devices connected to VESDAnet.</li> <li>• Refresh Map - Refreshes the VESDAnet map when a Detector Chassis is changed</li> <li>• Latch Alarms - This provides a YES/NO option to latch/unlatch all Alarms</li> <li>• Latch Faults - This provides a YES/NO option to latch/unlatch all Faults</li> </ul>	ADM ADM ADM DST ADM ADM ADM																				
158.	<b>Show Wiring Order</b> - Lists all the VESDA Laser family devices connected to VESDAnet.	USR																				
159.	<b>LCD Screen</b> - Select this menu to set LCD screen options.	USR																				
160.	<p><b>Screen Control</b> -</p> <ul style="list-style-type: none"> <li>• Contrast - Permits the LCD Screen Contrast setting between 0 and 10</li> <li>• Backlight - Controls the backlight ON and OFF function</li> </ul>	USR																				



# Index

## A

<b>Action</b> .....	14
<b>Add User</b>	
Users - System/All Devices .....	40
<b>Address Control</b> .....	13, 20
<b>Address control</b> .....	29, 34
<b>Address Control Lockout</b>	
LCD Programmer.....	37
<b>Address Name/Location</b> .....	24
<b>Address name/location</b> .....	15, 31
<b>Address Number</b> .....	15, 29, 37
<b>Address number</b> .....	13, 24, 31, 34
<b>Address Number and Name</b> .....	12
<b>Address with a VLP detector</b> .....	12
<b>Address with a VLS</b> .....	19
<b>ADM</b> .....	3
<b>Administrator Access Level</b> .....	5
<b>Air Flow</b> .....	15, 24, 31
System/All Devices.....	40
<b>Alarm Delay</b> .....	14
<b>Alarm Delays</b> .....	30
<b>Alarm Test</b> .....	27, 32
<b>Alarms</b> .....	13, 19, 20, 28, 29
<b>Alarms Status</b> .....	12
<b>Alert</b> .....	30
<b>Alert level</b> .....	14
<b>Ancillary Devices</b> .....	33
<b>AutoLearn</b> .....	15, 24, 31
VESDA LaserPLUS Detector.....	39
<b>Automatic Log Off</b> .....	7

## B

<b>Backward Action Key</b> .....	7
----------------------------------	---

<b>Beeper</b> .....	35
<b>Button Lockout</b> .....	32, 34
System/All Devices.....	40

## C

<b>Cfg Code</b> .....	19, 28
Status - HLI .....	38
<b>Cfg Code Status</b> .....	12
<b>Change User Details</b>	
Users - System/All Devices .....	40
<b>Change-Over Times</b> .....	14, 21
<b>Clear Log</b> .....	13, 20, 29
<b>Communications</b> .....	18, 28, 33, 36
HLI.....	38
LCD Programmer.....	38
System/All Devices.....	41
<b>Configuration Code</b> .....	37
<b>Connections</b> .....	4
<b>Contact Us</b> .....	ii
<b>Conventions</b> .....	i
<b>cumulative delay times</b> .....	14
<b>Current % Flow</b> .....	19, 28
<b>Current % flow Status</b> .....	12
<b>Current Access Level</b> .....	37
<b>Current Sector</b> .....	20, 34
<b>Current User Level</b> .....	37

## D

<b>Day Threshold</b> .....	22
<b>Day Thresholds</b> .....	13, 20
<b>Def. User</b>	
Miscellaneous - LCD Programmer .....	38
<b>Default User Level IDs</b> .....	3
<b>Delays</b> .....	22

**Delays & Thresholds** ..... 22

**Delete User**

    Users - System/All Devices ..... 40

**Devices**

    Maximum ..... 3

**Diagnostics**..... 18, 27, 32

**Dimensions**..... 3

**Display** ..... 3

**Display/Relays** ..... 33

**Distributor Access Level** ..... 5

**DST**..... 3

**E**

**End Date**..... 20, 29

**End date** ..... 13

**End Time** ..... 20, 29

**End time** ..... 13

**Event Log** ..... 12, 19, 29

**Events to view**..... 13, 20, 29

**F**

**Factory Defaults** ..... 18, 27, 33, 36

    HLI ..... 38

    LCD Programmer..... 37

**Fault Test** ..... 27, 32

**Faults**..... 13, 19, 20, 28, 29, 37

    Status - HLI ..... 38

**Features** ..... 1

**Filter** ..... 16, 25, 32

    System/All Devices ..... 40

**Fire** ..... 30

**Fire 1** ..... 14

**Fire 2** ..... 14

**Flow Control** ..... 16, 24

**Flow Fault**..... 27, 32

**Flow Thresholds**..... 15, 24, 31

**Forward Action Key** ..... 7

**G**

**GP Input** ..... 19, 28, 33

**H**

**Hard Keys** ..... 4

**Health Check**..... 18, 33, 36

    Communications - HLI..... 38

    Communications - LCD Programmer.... 38

    Communications - System/All Devices.. 41

**HLI**

    Ancillary ..... 38

**Holidays** ..... 14, 21

    System/All Devices..... 39

**Hour Glass Symbol** ..... 5

**Humidity** ..... 3

**I**

**Inactivity Time Out** ..... 3

**Instant Fire Alarm** ..... 14

**Intentional Log off**..... 8

**Isolate** ..... 13, 20, 29, 34

    Address Control Lockout - LCD Programmer  
    37

    System Control - System/All Devices.... 39

**Isolate remind**

    Miscellaneous - Display/Relays ..... 37

**Isolated** ..... 19, 28

**Isolated Status** ..... 12

**K**

**Keys**..... 3, 4

**L**

**Lamp Test**..... 32

**LaserPLUS Settings** ..... 12

<b>Latch Alarms</b> .....	19, 28, 33, 37	<b>Normalize</b> .....	16, 24, 31
Miscellaneous - LCD Programmer .....	38		
<b>Latch Faults</b> .....	19, 28, 33, 37	<b>O</b>	
Miscellaneous - LCD Programmer .....	38	<b>Open-ended</b> .....	18, 36
<b>Latching</b> .....	17, 26, 35	Communications - HLI.....	38
<b>LCD Programmer</b> .....	37	Communications - LCD Programmer....	38
<b>LCD programmer keys</b> .....	4	<b>Operating Temperature</b> .....	3
<b>LCD Programmer screen description</b> .....	12	<b>Overlay Alert</b> .....	30
<b>LCD Screen</b> .....	41		
<b>Location</b> .....	34, 37	<b>P</b>	
HLI.....	38	<b>Page Down</b> .....	7
<b>Log off</b> .....	3	<b>Page Up</b> .....	7
<b>Log off Automatic</b> .....	7	<b>Personal Identification Number (PIN)</b> .....	5
<b>Log off Manual</b> .....	8	<b>PIN</b> .....	5
<b>Logging on</b> .....	7	<b>Power Consumption</b> .....	3
<b>Logon</b> .....	12	<b>Power Supply Number</b> .....	16, 25, 32, 34
		HLI.....	38
<b>M</b>		LCD Programmer.....	37
<b>Main Menu</b> .....	12	<b>Pre-Alarm</b> .....	30
<b>Maximum VESDA devices addressed</b> .....	3	<b>Pref. Port</b> .....	18, 33, 36
<b>Miscellaneous</b> .....	19, 28, 33, 37	Communications - HLI.....	38
LCD Programmer.....	38	Communications - LCD Programmer....	38
System/All Devices.....	41	Communications - System/All Devices..	41
<b>Mode</b> .....	13, 20, 29, 34	<b>Product Specifications</b> .....	3
System Control - System/All Devices ...	39	<b>Programmer keys</b> .....	4
<b>Mode/Test</b>		<b>Push Button Keys</b> .....	3
Address Control Lockout - LCD Programmer	37		
		<b>R</b>	
<b>N</b>		<b>Rebuild address list</b> .....	16, 25, 32
<b>Navigating the LCD Programmer</b> .....	7	<b>Reference Detector</b> .....	16, 25, 32, 40
<b>Net Delay</b> .....	18, 33, 36	<b>Relay Assignments</b> .....	18, 27
Communications - HLI.....	38	<b>Relay Setup</b> .....	16, 25, 34
Communications - LCD Programmer....	38	<b>Relay Startup Mode</b> .....	17, 26, 34
Communications - System/All Devices..	41	<b>Relay Test</b> .....	18, 27, 32
<b>Night Threshold</b> .....	22	<b>Relays/Disp Connected</b> .....	16, 25, 34
<b>Night Thresholds</b> .....	21	<b>Reset</b> .....	13, 20, 29, 34
Smoke Thresholds - VESDA LaserPLUS De-		Address Control Lockout - LCD Programmer	37
tector.....	14		

System Control - System/All Devices ... 39

**S**

**Scan** ..... 34

    System Control - System/All Devices ... 39

**Scan Status** ..... 19

**Scan Test** ..... 27

**Scanner**..... 21

**Screen Control**

    LCD Screen..... 41

**Screen Display** ..... 3

**Sector Factor** ..... 23

**Sector factor** ..... 23

**Sector Test** ..... 27

**Sector Time** ..... 22

**Security Access** ..... 3

**Select Events** ..... 13, 20, 29

**Sensitivity**..... 13, 29, 34

    Zone Control - VESDA LaserSCANNER De-  
    tector..... 20

**Set Date & Time**

    System/All Devices ..... 39

**Setup By Address**..... 12

**Setup By Type**

    VESDA LaserPLUS..... 38

**Show Wiring Order** ..... 41

**Silence** ..... 13, 20, 29, 34

    System Control - System/All Devices ... 39

**Silence/Scan**

    Address Control Lockout - LCD Programmer  
    37

**simultaneous delay times** ..... 14

**Smoke**..... 13

    Zone Control - VESDA LaserSCANNER De-  
    tector..... 20

**Smoke Change** ..... 15, 23, 30

    System/All Devices ..... 41

**Smoke Level** ..... 13, 19, 20, 28, 29, 34

**Smoke Level Status** ..... 12

**Smoke Thresholds** ..... 13, 20, 29, 30

**Soft Keys** ..... 4

**Software Version Installed** ..... 37

**Standby Mode** ..... 6

**Status**..... 19, 28, 33, 37

    HLI..... 38

    System/All Devices..... 39

**Status Faults** ..... 12

**Status SW Version** ..... 12

**Status VLP** ..... 12

**Sub-Node Type**

    Status - HLI..... 38

**Supply Voltage** ..... 3

**Support**

    Miscellaneous - LCD Programmer ..... 38

**SW Version** ..... 19, 28

    Status - HLI..... 38

**System Control**

    System/All Devices..... 39

**System/All Devices**

    VESDA LaserPLUS ..... 39

**T**

**Thresholds**..... 22

**Time out** ..... 3

**U**

**UL Version** ..... 19, 28, 33

    Miscellaneous - LCD Programmer ..... 38

**User Access Level** ..... 5

    ADM..... 5

    DST ..... 5

    USR..... 5

**User Action** ..... 13, 20, 29

**User Levels** ..... 3

**Users**

    System/All Devices..... 40

**USR** ..... 3

**V****Value Decreasing Action Key/Page Down . 7****Value Increasing Action Key ..... 7****Valve Operations ..... 23****VESDA Device**

Setup By Type..... 39

**VESDA devices addressed**

Product Specifications..... 3

**View Event ..... 12****View Events ..... 19, 29****VLC**

Address name/location..... 31

Address number ..... 31

Air flow ..... 31

Alarm delays ..... 30

Alarms ..... 28

Alert ..... 30

Autolearn ..... 31

Cfg Code..... 28

Current % flow..... 28

Event log..... 29

Faults ..... 28

Fire ..... 30

flow thresholds ..... 31

Isolated..... 28

Overlay alert ..... 30

Pre-alarm ..... 30

Smoke ..... 29

Smoke change ..... 30

Smoke level..... 28

Status..... 28

SW Version ..... 28

Thresholds (Smoke) ..... 29

View events ..... 29

**VLC address ..... 28****VLP**

Action ..... 14

Address control ..... 13

Address number ..... 13

Alarm delay ..... 14

Alarm status..... 12

Alarms ..... 13

Alert level ..... 14

Cfg Code status..... 12

Clear log ..... 13

Current % flow status..... 12

Day thresholds ..... 13

End date ..... 13

End time ..... 13

Event log..... 12

Events to view ..... 13

Fault status..... 12

Faults ..... 13

Fire 1..... 14

Fire 2..... 14

Isolate ..... 13

Isolated status ..... 12

Mode..... 13

Reset ..... 13

Select events ..... 13

Sensitivity..... 13

Silence ..... 13

Smoke ..... 13

Smoke Level..... 13

Smoke Level Status..... 12

Smoke thresholds ..... 13

Status alarm ..... 12

Status Cfg Code ..... 12

Status Current % flow ..... 12

Status Faults..... 12

Status Isolated ..... 12

Status SW Version ..... 12

SW Version status..... 12

User action ..... 13

View events ..... 12

**VLP Status ..... 12****VLS**

Address ..... 19

Address Control..... 20

Address Name/Location ..... 24

Address Number..... 24

Air Flow ..... 24

Alarm Test..... 27

Alarms ..... 19, 20

AutoLearn ..... 24

Cfg code ..... 19

Change over times ..... 21

Clear log ..... 20

Communications ..... 28

Current % flow..... 19

Current Sector..... 20

Day threshold..... 22

Day Thresholds ..... 20

Delays ..... 22

Delays &amp; Thresholds..... 22

Diagnostics..... 27

End date ..... 20

End time ..... 20

Events log ..... 19

Events to view ..... 20

Factory defaults ..... 27

Fault test ..... 27

Faults ..... 19, 20

Filter..... 25

Flow Control ..... 24

Flow fault ..... 27  
 Flow Thresholds ..... 24  
 GP Input ..... 28  
 Holidays..... 21  
 Isolate ..... 20  
 Isolated..... 19  
 latch alarms ..... 28  
 Latch faults..... 28  
 Latching..... 26  
 Misc ..... 28  
 Mode..... 20  
 Night Threshold ..... 22  
 Night Thresholds ..... 21  
 Normalize..... 24  
 Power supply number ..... 25  
 Rebuild address list ..... 25  
 Reference detector..... 25  
 Relay Assignments ..... 27  
 Relay setup ..... 25  
 Relay Startup Mode..... 26  
 Relay test..... 27  
 Relays/disp Connected ..... 25  
 Reset ..... 20  
 Scan Status ..... 19  
 Scan test..... 27  
 Scanner ..... 21  
 Sector Factor ..... 23  
 Sector test..... 27  
 Sector time ..... 22  
 Select Events..... 20  
 Silence ..... 20  
 Smoke Change ..... 23  
 Smoke level..... 19, 20  
 Smoke Thresholds ..... 20

Status ..... 19  
 SW Version..... 19  
 Thresholds..... 22  
 UL Version..... 28  
 User Action ..... 20  
 View Events ..... 19  
 Weekend..... 21

**Voltage** ..... 3

**W**

**Weekend**..... 14, 21  
     System/All Devices..... 39

**Z**

**Zone**  
     (AKA Address)..... 28

**Zone Number**  
     Zone Control - VESDA LaserSCANNER De-  
     tector ..... 20

**Zone with a VESDA LaserCOMPACT Detector**  
     Setup By Type..... 28

**Zone with VLS Detector**  
     Setup By Type..... 19