

## System Site Guide

Your area is protected by a VESDA Aspirating Smoke Detection System.

This system works by drawing air through a network of pipes to a detector. The air sample is then analyzed to identify whether or not there is smoke in the monitored area. If smoke is detected, a reaction will be seen on the detector's display (if installed).

This leaflet is a guide to how your VESDA system works and explains the system's basic functionality.

### IMPORTANT NOTE:

**This document is for general guidance only.**

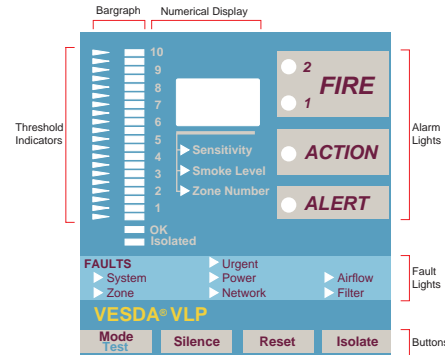
**Your company's fire procedures must take precedence.**

*PLEASE NOTE: There may be local variations in equipment, indications and procedures.*



### VESDA VLP Display

This is the display typically found on a VESDA VLP detector.



### Push Button Keys:

**Mode/Test (Dual Function)** - Selects modes on the numerical display i.e., sensitivity, smoke level, zone number. When depressed for more than 2 seconds it will perform a light test.

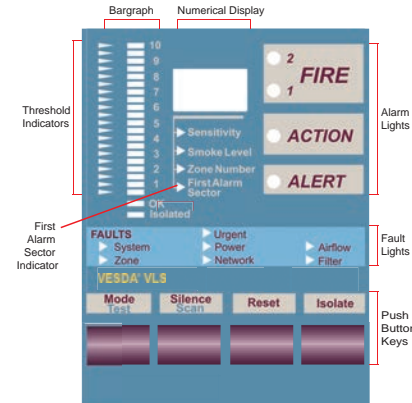
**Silence** - Silences any alarm or fault warnings. It stops the lights from flashing to acknowledge a fault or alarm condition.

**Reset** - Resets all the alarms and faults on the detector. Any remaining alarms or faults will be re-reported after time delays have elapsed.

**Isolate** - Isolates the detector from any external devices or systems (an isolate alarm will normally be raised at the Fire Alarm Control Panel).

### VESDA VLS Display

This is the display typically found on a VESDA VLS detector.



### Push Buttons Keys:

**Mode/Test (Dual Function)** - Selects modes on the numerical display i.e., sensitivity, smoke level, zone number, first alarm sector. If depressed for more than 2 seconds it will perform a light test.

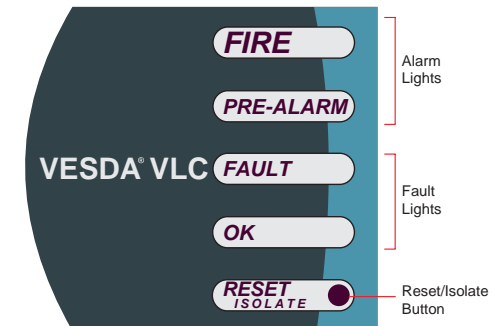
**Silence/Scan (Dual Function)** - Silences any alarm or fault warnings and stops any lights from flashing. When depressed for more than two seconds the Scan function is activated. The detector then scans each sector to determine smoke levels.

**Reset** - Resets all the alarms and faults on the detector. Any remaining alarms or faults will be re-reported after time delays have elapsed.

**Isolate** - Isolates the detector from any external devices or systems (an isolate alarm will normally be raised at the Fire Alarm Control Panel).

### VESDA VLC Display

This is the display typically found on a VESDA VLC detector.



**Fire** - The red light is illuminated when the fire alarm threshold is initiated.

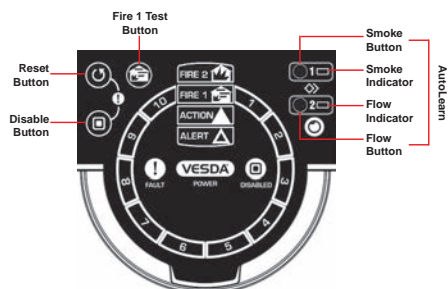
**Pre-Alarm/Alert** - This red light is **permanently** illuminated when the **Pre-Alarm** threshold is initiated. The light flashes when the **Alert** alarm threshold is initiated (if configured).

**Fault** - Indicates a fault condition

**OK** - Indicates normal operation

**Reset/Isolate (Dual Function)** - When pressed it resets all the alarms and faults on the detector. When the button is depressed for two seconds it isolates the detector and raises a fault alarm.

## VESDA VLF Display



**Fire** - The alarm indication is illuminated when the fire alarm threshold is initiated.

**Fault** - Indicates a fault condition.

**Reset** - Pressing the reset button will reset the detector and clear any latched alarms & faults.

**Disable** - Indicates the system is disabled. Pressing the disabled button for 6 seconds will put the detector into standby mode.

**Smoke Dial and Fault Type Indicator** - The dial illuminates as the smoke reading increases in the event of a fire. When the Instant Fault Finder function is initiated by the user, the fault type indicator will illuminate the corresponding number associated with the fault.

**Fire 1 Test Button** - Pressing the alarm test button simulates a Fire 1 condition and the alarm relay is activated after the appropriate delay.

## What Do The Lights Mean?

**OK Light** - This green light indicates that the detector is functioning normally and will detect smoke.

**Alarm Lights** - These illuminate if one of the alarm levels has been reached in the protected area.

**Bargraph** - These indicate the current smoke level in the protected area.

**Threshold Indicators** - Indicate the setting of the ALERT, ACTION, and FIRE 1 alarm levels. (Or ALERT, PRE-ALARM, FIRE on the VLC remote display)

**Isolated Light** - This light is illuminated when communication between the detector and the fire alarm control panel has been intentionally isolated.

**Fault Lights** - These illuminate if there is a fault in the system. They are:

- **URGENT** - ACT NOW as the system may be incapable of communicating a fire warning.
- **SYSTEM** - effects the whole system eg. a com-munications interface failure.
- **ZONE** - in the area monitored by the detector.
- **POWER** - associated with the detector's power supply.
- **NETWORK** - communications fault on VESDAnet.
- **AIRFLOW** - due to changes to the airflow in the detector.
- **FILTER** - due to a spent or a missing filter.

## What To Do In The Event of An Alarm

The following responses are examples of what action may be appropriate in the event of an alarm. For details of the appropriate response in your particular site contact your Fire Warden.

### ALERT



When illuminated, this light indicates that the detector has identified the early stages of a fire condition &/or that the smoke level in the area is above normal.

Contact your Fire Warden and follow the instructions given to you.

### ACTION/PRE-ALARM



When illuminated, this light indicates that there has been a further increase in the level of smoke in the protected area.

Take action to prepare for the fire alarm. If you have not already done so, contact your Fire Warden and follow the instructions given to you.



### FIRE 1

(or FIRE on the VLC display)

This indicates a SERIOUS situation and may lead to automatic generation of a normal fire alarm.

Standard fire alarm procedures may commence, eg, evacuation. Contact your Fire Warden immediately and follow the instructions given to you.

### FIRE 2

This alarm indicates an **EXTREMELY SERIOUS** situation and will most likely lead to advanced fire prevention procedures.



Automatic suppression systems may be activated. Evacuation procedures will also be initiated.

Contact your Fire Warden and follow the instructions given to you.

### Pipes and Sampling Points

The pipes and sampling points are crucial to the operation of your VESDA smoke detection system. They actively transport air from the protected area to the detector.

DO NOT cover, modify, paint or tamper with any smoke detection system sampling pipe or sampling point.

The following pictures show labels that are typically used to identify the VESDA system's pipes and sampling points.



### Need more information?

Visit [www.xtralis.com](http://www.xtralis.com) to access information about the Xtralis VESDA smoke detector product range and our Design Guides.