

# VESDA® 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 analysed 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:

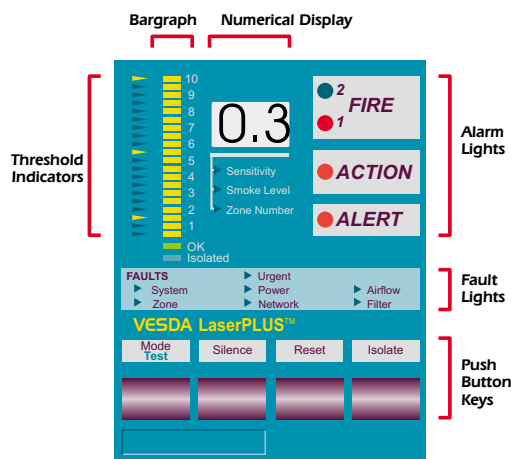
This document is for general guidance only.

Your company's fire procedures must take precedence.



## The LaserPLUS™ Display

This is the display typically found on a



### Push Button Keys:

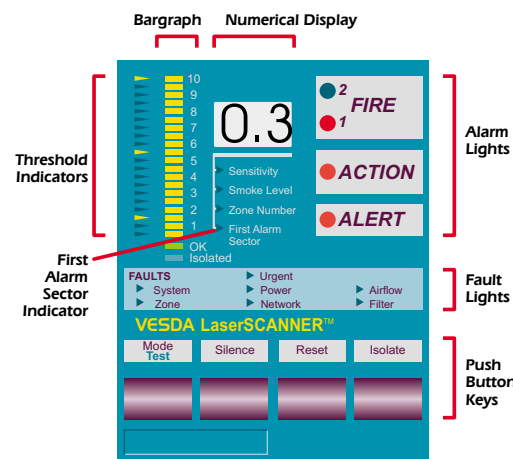
**Mode/Test (Dual Function)-** Selects modes on the numerical display i.e., sensitivity, smoke level, zone number. When depressed for more than 2 seconds it will perform a light test.

**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

## The LaserSCANNER™ Display

This is the display typically found on a



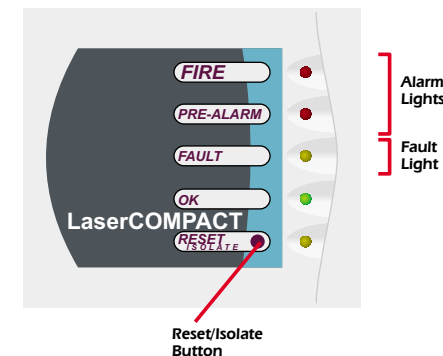
### Push Buttons Keys:

**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.

## The LaserCOMPACT™ Display

This is the display typically found on a



**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

## 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

## What To Do In The Event of An

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

### ALERT

When illuminated, this light indicates that the detector has identified the early stages **ACTION** 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

### 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



## System Maintenance

All fire protection systems require regular maintenance by authorised

|                                     | Every six months | Every year | Every two years |
|-------------------------------------|------------------|------------|-----------------|
| Check airflow                       |                  | ●          |                 |
| Check filter                        |                  | ●          |                 |
| Check air sampling pipework         | ●                |            |                 |
| Clean the sampling points           |                  | ●          |                 |
| Flush the air sampling pipe network |                  |            | ●               |
| Pipe integrity smoke testing        |                  | ●          |                 |

Note: Local codes and standards may affect the frequency of maintenance intervals and the servicing and testing of associated equipment.

For further information regarding these products please contact:



The manufacturer reserves the right to change designs or specifications without obligation and without further notice. VESDA, LaserTEKNIC, LaserPLUS, LaserSCANNER,