



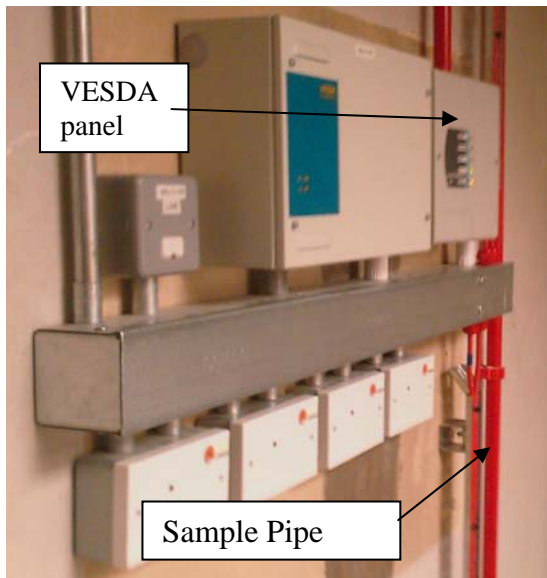
## “VESDA” Smoke Detection System

Consideration should be given to the use of VESDA (Very Early Smoke Detection Apparatus) detection to protect very high levels such as lift shafts, and awkward to access areas. This removes the need to gain access to the high level area or confined space for test and maintenance purposes.

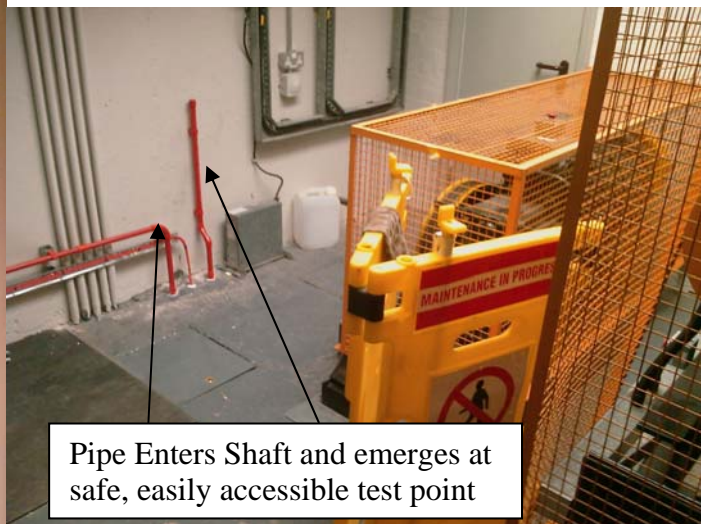
The VESDA is basically an air pump which draws air into a Laser chamber in which any particles of smoke are counted to determine an alarm level. The VESDA is configurable to be 200 times more or less sensitive than a standard smoke detector and so can be used in harsh or very clean environments.

A 25mm plastic pipe is deployed into the protected area, with sample holes drilled in to it, the end of the pipe is positioned at a safe accessible point to allow the introduction of test gas, and this is used to confirm the VESDA's operation and the integrity of the pipe.

### Typical VESDA Installation



### Lift Motor Room above Shaft



### Benefits of VESDA Smoke Detection at height and in confined spaces

- Accessible test points for safe maintenance and testing
- Detection sensitivity customisable to suit area of protection
- Separate very early warning alarm signal can give advanced notice at the earliest stages of combustion

### Disadvantages of VESDA Smoke Detection at height and in confined spaces

- Higher initial outlay cost than standard smoke detection (this is dependent on the size of the area covered) but this may be offset by subsequent maintenance.

**For more information contact Steve Mannion (ADT) on 01625 514251**