

# VESDA VLF

VLF-250

## Features:

- ▶ Out-of-the-Box Installation and Commissioning
- ▶ Ultrasonic Airflow Sensing
- ▶ Laser-Based Absolute Smoke Detection
- ▶ Pre-engineered pipe network designs
- ▶ Programmable Alarm Thresholds
- ▶ Clean air barrier optics protection
- ▶ Multiple Event Logging in separate logs
- ▶ Event log – up to 18000 events
- ▶ Offline/online configuration capability
- ▶ Up to 500m<sup>2</sup> (5000sq. ft.) coverage\*
- ▶ Field Service Access Door
- ▶ Instant Recognition Display
- ▶ Instant Fault Finder™
- ▶ AutoLearn™ Smoke
- ▶ AutoLearn™ Flow



## Listings / Approvals



- Class A (12 holes / 0.12% obs/m)
- Class B (12 holes / 0.35% obs/m)
- Class C (12 holes / 0.80% obs/m)

The VESDA VLF-250 detector is a very early warning smoke detector designed to protect small, business-critical environments of less than 250m<sup>2</sup> (2500sq. ft.).

The detector works by continually drawing air into sampling holes in a pipe network. The air is filtered and passed into a detection chamber where light scattering technology detects the presence of very small amounts of smoke. Detector status information is communicated on the detector display and via relays or optional interface cards.

## Out-of-the-box operation

The VLF can be installed and commissioned out-of-the-box without the need for a special interface or software programming tools.

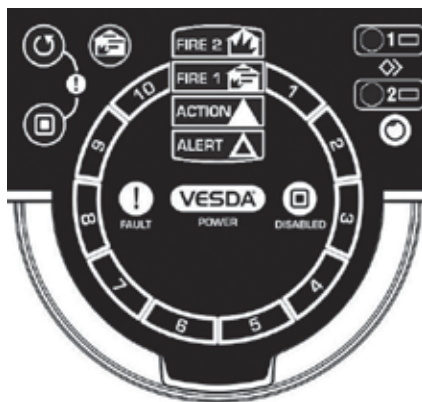
In operation, the unique Smoke Dial™ display provides the user with an instant understanding of a smoke event, even from a distance. Should a fault occur, the user simply opens the field service door and activates the Instant Fault Finder feature to determine the specific fault condition. This information can then be passed onto their fire service company, ensuring that service technicians arrive onsite fully prepared.

## Ultrasonic Flow Sensing

The patent-pending Ultrasonic Flow Sensing used in the VLF provides a direct reading of the sampling pipe flow rate. The system is immune to air temperature and pressure changes and is unaffected by contamination. The VLF is the first air sampling smoke detector to use ultrasonic flow sensing.





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## Display

The display provided to the user includes a Smoke Dial™ and alarm and status indicators.

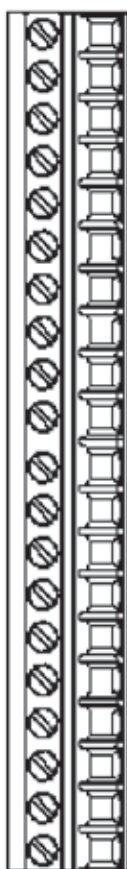
When the field service access door is open, the user has access to the RESET , DISABLE , Fire Test , AutoLearn  and Instant Fault Finder functions.

When the Instant Fault Finder function is activated, the Smoke Dial™ converts to a fault indicator, with the dial segment numbers corresponding to the faults listed below.

## Legend of fault indicators

- 1 Filter
- 2 Aspirator
- 3 High flow
- 4 Low flow
- 5 n/a
- 6 External Device/PSU
- 7 Interface card
- 8 Field wiring
- 9 AutoLearn Fail
- 10 Detector failure

## Legend of fault indicators



- 1 GPI
- 2 GPI
- 3 Display TX
- 4 Display RX
- 5 Display Common Ground
- 6 Display Power -
- 7 Display Power +
- 8 Power Return 0 VDC *From power supply unit*
- 9 Power In 24 VDC
- 10 Power Return 0 VDC *To next detector (if more than 1 detector per Power Supply Unit)*
- 11 Power Out 24 VDC
- 12 NC
- 13 Common *Fault relay*
- 14 NO
- 15 NC
- 16 Common *Fire 1 relay*
- 17 NO
- 18 NC
- 19 Common *Action relay*
- 20 NO



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<b>AutoLearn Smoke &amp; Flow</b>	<ul style="list-style-type: none"> <li>▶ Automatically set acceptable alarm thresholds for both smoke and flow levels</li> <li>▶ Minimum 15 minutes, maximum 15 days (default 14 days)</li> <li>▶ During AutoLearn thresholds are NOT changed from pre-set values</li> </ul>
<b>Warranty Period</b>	2 years

## Ordering Information

### Product

European language set. English display labels  
 European language set. International display labels  
 English + Asian language set. International display labels  
 English + Russian language set. International display labels  
 English + Eastern Euro language set. International display labels  
 VESDAnet Interface Card  
 Multifunction Control Card (MCC)  
 Multifunction Control Card (MCC) with Monitored Powered Output (MPO)  
 Filter Cartridge, VSP-722 Aspirator for VESDA VLF-250

### Part Number

VLF-500-00 VESDA VLF  
 VLF-500-01 VESDA VLF  
 VLF-500-02 VESDA VLF  
 VLF-500-04 VESDA VLF  
 VLF-500-05 VESDA VLF  
 VIC-010  
 VIC-020  
 VIC-030  
 VSP-005