Display modules provide real-time indication of the status of an Xtralis VESDA detector. They have a 20-segment vertical bar graph display, a 2 digit numeric display, an audible sounder, clear alarm and fault indicators. They also have 4 push button keys to control the detector and the mode of the display.

The Display Module can be mounted into a detector unit, a remote mounting box or a 19in sub rack. Several displays can be configured to display information from a single detector in multiple locations.

**Description**

There are various versions of the display module depending on the type of detector and the relay configuration required. The Xtralis VESDA VLS display has a fourth mode for the Numerical Display which shows the First Alarm Sector (FAS), this being the number of the sector (pipe) that has detected smoke. For the Xtralis VESDA VLC, the Fire 2 LED is omitted.

**Smoke Indication**

Smoke levels are continuously shown on a bar graph display where each illuminated segment indicates the current level of detected smoke.

The top segment of the bar graph indicates the Fire 1 smoke threshold level and each segment below that level represents 1/20 of the Fire 1 smoke threshold level.

To the left of the bar graph are the Fire 1, Action and Alert smoke threshold indicators. At a glance these provide a visual representation of the programmable alarm thresholds showing how close the smoke level is to triggering the next level of alarm.

**Status Lights**

High intensity flashing LEDs provide a clear indication of the fire condition and are accompanied by an audible warning appropriate to the alarm condition. Similarly, any fault condition is indicated by a series of LEDs and an audible tone providing a comprehensive range of status information. The audible warning is easily silenced by pressing the Silence button at which point any flashing LEDs are illuminated until the cause of the event is identified, rectified and the system reset.

**Features**

- Provides Immediate Status Reporting for a Single VESDA Zone
- Allows Zone Control of Assigned Xtralis VESDA Detector
- High Intensity Alarm LEDs
- Remote Relay Option
- 20-Segment Vertical Bar Graph Display
- Alarm Threshold Indicators
- Built-In Sounder for Audible Warning
- Comprehensive Fault Reporting
- Multi-mode Numeric Display (defaults to smoke obscuration)
- Recessed Mounting Option

**Listings/Approvals**

- UL
- ULC
- FM
- LPCB
- VdS
- ActiveFire

**Numeric Display**

A 2 digit numerical readout has a number of modes that are indicated by up to four LEDs:

- The current smoke level in % obscuration/ft (% obscuration/m)
- Fire 1 threshold in % obscuration/ft (% obscuration/m). This is the sensitivity of the detector.
- The VESDA zone number
- First Alarm Sector on the VLS display - the numeric readout shows the sector (pipe) number that has detected smoke.

**Push Button Keys**

Four large tactile push button keys enable users to reset, isolate or silence the detector and control the mode of the display module. The buttons can be disabled to prevent operation of it’s functions.

A lamp test routine is initiated by pressing the Mode key for two seconds. A Manual Scan can be initiated on the VLS by holding the Silence button for 2 seconds.
### Display Module (front view)

![Display Module (front view)](image)

### Display Module (side view)

![Display Module (side view)](image)

### Remote Mounting Box

![Remote Mounting Box](image)

### 19" Sub Rack

![19" Sub Rack](image)

## Specifications

<table>
<thead>
<tr>
<th>Power Consumption @ 24 VDC</th>
<th>Module Only</th>
<th>In Remote Mounting Box</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Quiescent</td>
<td>With Alarm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Quiescent</td>
</tr>
<tr>
<td>Power</td>
<td>1.6 W</td>
<td>2.2 W</td>
</tr>
<tr>
<td>Current</td>
<td>60 mA</td>
<td>80 mA</td>
</tr>
</tbody>
</table>

### Dimensions (WHD): Mounted in Remote Box - 5.5 in x 5.9 in x 3.4 in (140 mm x 150 mm x 85 mm)

### Operating Temperature: 32° to 103°F (0° to 39°C)

### Humidity: 10-95%RH non-condensing

### Alarm Indicators: High Intensity LEDs with 70 degree viewing angle

### Push Buttons Keys:

- **Mode/Test** (Dual Function): Short press: Selects modes on the numeric display: Sensitivity, Smoke Level, and Zone Number.
- 

### Fault Indicators:

- **System**: A fault that affects the whole Xtralis VESDA system (any devices connected on VESDAnet).
- **Zone**: A fault that affects only the assigned Xtralis VESDA detector and its associated displays.
- **Urgent**: A serious fault that requires immediate attention. This light will only illuminate when at least one other fault light is lit.
- **Power**: A fault with either the mains AC or battery backup power supply.
- **Network**: A failure in the VESDAnet communications link.
- **Airflow**: Airflow drift. **Urgent** indicates serious aspirator or pipe failure.
- **Filter**: Filter needs replacing. **Urgent** indicates that filter replacement is overdue.

### Ordering Information

- Display, in Remote Mounting Box with termination card:
  - Xtralis VESDA VLP: 7 Relays VRT-200
  - Xtralis VESDA VLP: No Relays VRT-600
  - Xtralis VESDA VLF: 7 Relays VRT-200
  - Xtralis VESDA VLF: No Relays VRT-600
  - Xtralis VESDA VLS: 7 Relays VRT-200
  - Xtralis VESDA VLS: 12 Relays VRT-800
  - Xtralis VESDA VLC: No Relays VRT-700
  - Xtralis VESDA VLC: 7 Relays VRT-J00
  - Xtralis VESDA VLC: No Relays VRT-K00
- Recessed Mounting Kit (Optional): VSP-012
- Configured in 19" Sub Racks Contact Xtralis

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