Dual gas detection with stand alone unit and a second remote sensor
Vulcain 301M stand-alone dual gas monitor

User Friendly
• Easy to install and operate

Versatility and Reliability
• Dual gas detection capability
• State-of-the-art sensing technologies

Security
• Two alarm levels (low and high) per sensor with independent SPDT fail-safe relays per alarm level
• Visual and audible alarm (at high level) indicators

Flexibility and Practicality
• Energy saving programmable time delay function
• Four dedicated relays
• Innovative and attractive enclosure design
• Optional display

The stand alone 301M gas detector continuously monitors for carbon monoxide (CO) with an on-board electrochemical sensor. A second remote sensor can be installed up to 500 feet / 152.4 m away to monitor for carbon monoxide, nitrogen dioxide, propane, hydrogen or methane.

The advanced microprocessor-based Vulcain 301M system features a high quality controller, reliable sensing technology and a high-tech durable enclosure. The 301M represents another Honeywell Analytics innovation that redefines the standards of versatility, simplicity and cost-effectiveness in reliable gas detection.

Innovative Architecture
The result of extensive experimentation and the most rigorous testing, the 301M gas monitor’s highly advanced enclosure is designed to provide maximum effectiveness and durability. The housing has been carefully conceived and constructed to allow optimal gas flow, ensuring precise detection.
## General Specifications

<table>
<thead>
<tr>
<th>Use</th>
<th>Stand-alone CO detector with option for a second remote sensor for other potential toxic or combustible hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>21.3 x 13.4 x 5.7 cm (8.4 x 5.3 x 2.25 in.)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.35 kg (0.86 lb.)</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>17-27 Vac, 24-38 Vdc, 450 mA @ 24 Vdc (11 VA) or 110-120 Vac, 70mA @ 120Vac (8.4 VA)</td>
</tr>
<tr>
<td>Relay Output Rating</td>
<td>5A, 100 Vac or 250 Vac (resistive load)</td>
</tr>
<tr>
<td>Alarm Levels</td>
<td>High and Low</td>
</tr>
<tr>
<td>Audible Alarm</td>
<td>65 dBA at 1 m (3 ft.)</td>
</tr>
<tr>
<td>Outputs</td>
<td>2 SPDT relays per zone</td>
</tr>
</tbody>
</table>

### Detection

<table>
<thead>
<tr>
<th>Gases Detected</th>
<th>Detection Range</th>
<th>Accuracy</th>
<th>Operating Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Monoxide (CO)</td>
<td>0-250 ppm</td>
<td>0 - 90% RH, non-condensing</td>
<td>-20 to +50°C (-4 to +122°F)</td>
</tr>
<tr>
<td>[internal]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon Monoxide (CO)</td>
<td>0-250 ppm</td>
<td>15 - 90% RH, non-condensing</td>
<td>0 to +40°C (32 to 104°F)</td>
</tr>
<tr>
<td>[remote]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrogen (H₂)</td>
<td>0-100% LEL</td>
<td>15 - 90% RH, non-condensing</td>
<td>0 to +40°C (32 to 104°F)</td>
</tr>
<tr>
<td>[remote]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methane (CH₄)</td>
<td>0-100% LEL</td>
<td>15 - 90% RH, non-condensing</td>
<td>0 to +40°C (32 to 104°F)</td>
</tr>
<tr>
<td>[remote]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nitrogen Dioxide (NO₂)</td>
<td>0-10 ppm</td>
<td>15 - 90% RH, non-condensing</td>
<td>0 to +40°C (32 to 104°F)</td>
</tr>
<tr>
<td>[remote]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propane (C₃H₈)</td>
<td>0-100% LEL</td>
<td>15 - 90% RH, non-condensing</td>
<td>0 to +40°C (32 to 104°F)</td>
</tr>
<tr>
<td>[remote]</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Sensing Technology

- Electrochemical (NO₂, remote CO), Catalytic combustion (CH₄, H₂)
- Electrochemical (internal CO), Solid-state (C₃H₈)

### Display

- Low alarm: Distinct red LED
- High alarm: Distinct red LED
- Failure indication: Yellow LED
- Power: Green LED

### Ratings and Certifications

- Certified to: CAN/CSA C22.2 No. 61010-1
- Conforms to: ANSI/UL 61010-1
As world leaders in gas detection solutions, Honeywell Analytics’ Vulcain range of gas detection systems has been designed to provide efficient, practical and cost-effective equipment to protect people from a variety of forms of hazardous gases and to efficiently monitor and control indoor air quality. The equipment is also extremely simple to install and easy to operate and maintain.

**The Vulcain range of fixed gas detection and air monitors**

Vulcain Sensors
From refrigerants to toxic and combustible gases, Honeywell Analytic’s Vulcain line has a sensor designed for any industrial or commercial application. With award winning sensor technology, this line of sensors is the answer to any fixed HVAC, IAQ or gas detection concerns.

Vulcain Controllers
Designed for industrial or commercial use, the Vulcain 301C monitors and controls toxic gases, combustible gases and oxygen hazards. With the same simple installation and operation and flexibility as the Vulcain 301C, the Vulcain 301EM is specifically designed to fulfill the requirements of a mechanical room.

**Find out more**
For more information on Honeywell Analytic’s Vulcain line of products, visit www.honeywellanalytics.com or contact us at 800 563 2967

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