# E³Point® Specifications

## Toxic and Combustible Gas Detector

### Standalone Platform (Single or Dual-Gas Monitoring)

### General Specifications

| Uses | Wall or duct-mounted gas detector for monitoring carbon monoxide (CO), nitrogen dioxide (NO₂), oxygen (O₂), methane (CH₄), hydrogen (H₂), hydrogen sulphide (H₂S), and propane (C₃H₈), installed as a standalone device with single-gas or dual-gas monitoring. |
| Size | 20.56 x 14.90 x 6.72cm (8.09 x 5.87 x 2.65") (H x W x D); Remote Sensor: 3.5 x 4.5 x 6.5 cm (1.36 x 1.75 x 2.56") |
| Power Requirement | 24 Vac nominal (17-27Vac), 50/60 Hz, 0.35 A; 24Vdc nominal (20-38Vdc); with remote sensor: 7 W max. |
| Optional Main AC Input | 120Vac nominal, ± 10% (with on-board transformer) |
| Relay Output | 2 DPDT relays, 5A @ 250Vac; 5A @ 30Vdc |
| Communications | 4-20mA |
| Operating Environment | Commercial, Indoor, Extreme Temperature Environments |
| Operating Temperature | H₂S, NO₂, O₂, CH₄, H₂, C₃H₈: -40 to 50ºC (-40 to 122ºF)  
CO: -20 to 50ºC (-4 to 122ºF) |
| Sensor Type | Electrochemical cell (CO, NO₂, H₂S, O₂); catalytic (CH₄, H₂, C₃H₈) |
| Response Time | T90 < 50 seconds  
With ECLAB T90 < 240 seconds |
| Display | 8 character, 2 line backlit LCD |
| Visual Indicators | Green LED: Power  
Amber LED 1: Alarm/Fault  
Amber LED 2: Alarm/Fault |
| Audible Alarm | >85 dBA at 3 m (10 ft) |
| Accuracy | ± 3% of full scale @ 25ºC |

### Detection Ranges and Alarm Levels

<table>
<thead>
<tr>
<th>Gas</th>
<th>Resolution</th>
<th>Range</th>
<th>Alarm A</th>
<th>Alarm B</th>
<th>Alarm C</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO (Carbon monoxide)</td>
<td>1 ppm</td>
<td>0-250 ppm</td>
<td>25 ppm</td>
<td>100 ppm</td>
<td>225 ppm</td>
</tr>
<tr>
<td>H₂S (Hydrogen sulfide)</td>
<td>0.1 ppm</td>
<td>0-50 ppm</td>
<td>10 ppm</td>
<td>15 ppm</td>
<td>20 ppm</td>
</tr>
<tr>
<td>NO₂ (Nitrogen dioxide)</td>
<td>0.1 ppm</td>
<td>0-10 ppm</td>
<td>0.7 ppm</td>
<td>2 ppm</td>
<td>9 ppm</td>
</tr>
<tr>
<td>O₂ (Oxygen)</td>
<td>0.1% vol.</td>
<td>0-25% vol.</td>
<td>19.5% vol.</td>
<td>22% vol.</td>
<td>22.5% vol.</td>
</tr>
<tr>
<td>H₂ (Hydrogen)</td>
<td>0.5% LEL</td>
<td>0-100% LEL</td>
<td>25% LEL</td>
<td>50% LEL</td>
<td>90% LEL</td>
</tr>
<tr>
<td>CH₄ (Methane)</td>
<td>0.5% LEL</td>
<td>0-100% LEL</td>
<td>25% LEL</td>
<td>50% LEL</td>
<td>90% LEL</td>
</tr>
<tr>
<td>C₃H₈ (Propane)</td>
<td>0.5% LEL</td>
<td>0-100% LEL</td>
<td>25% LEL</td>
<td>50% LEL</td>
<td>90% LEL</td>
</tr>
</tbody>
</table>

### Enclosure

- Polycarbonate

### Certification

- CSA C22.2 No. 61010-1, UL 61010-1; FCC part 15; ICES-003 issue 4; ISO 9001-2008

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