Series 100

Controller

Specification

Base Unit
Power (user supplied) Regulated 12 VDC, 400 mA
Unit interface (power in, control signal out) RJ45 connector
Setting control and alarms dip switches
External signal for control & switching Volt free (150 mA max, 24VDC max, resistive)
External signals 2
External signal functions Alarm (Low Alarm & High Alarm) or Control
Removable / replaceable sensor head Yes
LED status indicator Low, high, within control band, diagnostics
Enclosure rating IP20 & NEMA 1 equivalent
Enclosure size (with base unit) 64 H x 130 Ø (mm); 2½ H x 5¼ Ø (in)
Weight < 200 g; < 7 oz
Approvals Part 15 of the FCC Rules
EN 55022: 1998
EN 61000-6-1: 2001

3-Colour LED:-
- Below Low Limit
- Between Low and High Limits
- Above High Limit
### Ozone Sensor Head Specifications

<table>
<thead>
<tr>
<th>Sensor Heads</th>
<th>Low</th>
<th>High</th>
<th>Leak</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement range</td>
<td>0.000 - 0.500 ppm</td>
<td>0.50 - 20.00 ppm</td>
<td>0.00 - 50.00 ppm</td>
</tr>
<tr>
<td>Accuracy</td>
<td>&lt; 0.008 ppm (0 - 0.100 ppm)</td>
<td>± 10% (0.100 – 0.500 ppm)</td>
<td>± 20%, 15 seconds after Reset</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.001 ppm</td>
<td>0.01 ppm</td>
<td>0.01 ppm</td>
</tr>
<tr>
<td>Controlled Atmosphere Version</td>
<td>Available on Request</td>
<td>Available on Request</td>
<td>Available on Request</td>
</tr>
<tr>
<td>T90 Response</td>
<td>&lt; 60 seconds (T90)</td>
<td>&lt; 35 seconds (T90)</td>
<td>&lt; 10 seconds</td>
</tr>
<tr>
<td>Sensor type</td>
<td>Gas-sensitive semiconductor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-5°C to 50°C; 23°F to 122°F (sensor head and base unit)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative humidity limit</td>
<td>95% maximum (sensor head and base unit)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### VOC Sensor Head Specification*

- **Measurement range**: 0 to 400 ppm toluene
- **Accuracy**: < +/- 10 ppm (0 – 200 ppm) < +/- 10% ( > 200 ppm)
- **T90 response**: < 60 s
- **Sensor type**: Gas-sensitive semiconductor
- **Operating temperature range**: -20°C to 60°C
- **Operating relative humidity range**: 5 to 95% non-condensating

* Specific Calibrations to other VOC's available – contact Aeroqual Sales

### Ammonia Sensor Head Specification

- **Measurement range**: 0 to 1000 ppm
- **Accuracy**: < +/- 5 ppm (0 – 100 ppm) < +/- 10% (100 – 1000 ppm)
- **T90 response**: < 60 s
- **Sensor type**: Gas-sensitive semiconductor
- **Operating temperature range**: -20°C to 60°C
- **Operating relative humidity range**: 5 to 95% non-condensating

### CO Sensor Head Specification

- **Measurement range**: 0 to 2000 ppm carbon monoxide
- **Accuracy**: < +/- 10 ppm in the range 0 to 400 ppm
- **T90 response**: < 150s
- **Sensor type**: Gas-sensitive semiconductor
- **Operating temperature range**: 0°C to 70°C
- **Operating relative humidity range**: 5 to 95% non-condensating
- **Approvals**: UL 2034, BS 7860