## Radius BZ1

### Area gas monitor

#### Technical specifications

- **Sensors:** Up to 6 sensors (catalytic bead, photoionization detector, and electrochemical) up to 7 simultaneous readings
- **Display:** 11.2 cm (4.4 in) monochrome backlit liquid crystal display (LCD). Impact-resistant polycarbonate alloys
- **Power source & run time:** Rechargeable nickel-metal hydride (NiMH) battery pack
  - 7 days (168 hours) typical at 20 °C, without pump, wireless
  - 3.5 days (84 hours) typical at 20 °C, with pump, wireless
  - 30 days (720 hours) typical at 20 °C, electrochemical sensors only, without pump, wireless
  - ≤ 8 hours recharge time
- **Alarms:**
  - 108 decibel (dB) at 1 m (3.3 ft) redundant audible alarms
  - Redundant, visual alarm LEDs (red and blue)
- **Data log:** At least 3 months at 10-seconds intervals
- **Housing:** Shock-proof polycarbonate alloy
- **Dimensions / Weight:** 29 x 29 x 55 cm / 7.5 kg (16.5 lb)
- **Ingress protection:** IP66
- **Temperature range:** -20 °C to 55 °C (-4 °F to 131 °F)
- **Humidity range:** De 15 % à 95 % sans condensation (continue)
- **Pump:** Optional integral pump, up to 30.48 m (100 ft) sample draw
- **Certifications:**
  - UL: CI I, Div 1, Gr A, B, C et D, T4
  - CI 1 Zone 0 AEx da ia IIC T4 Ga1
  - CSA: CI I, Div 1, Gr A, B, C et D, T4
  - C22.2 No.152 applies only to %LEL thermocatalytic measure
  - ATEX: Ex da ia IIC T4 Ga, Equipment Group and Category II 1G
  - IECEx: Ex da ia IIC T4 Ga

#### Product description

Area monitors need two things to be efficient: precise sensor technology to detect hazardous gases and the robustness to withstand long outdoor deployments.

With the Radius BZ1, all critical technology pieces such as sensors, software, pumps, and wireless, are part of the patented SafeCore™ module.

Smart sensors are positioned face down to prevent the elements from interfering with gas readings, resulting in fewer false alarms.

The module slides out from the Radius BZ1 base for easy docking and automated maintenance, ensuring that your sensors are always ready to provide accurate gas detection.

The Radius BZ1 base is made of a durable, weather-resistant plastic. The base has built-in audio and visual alarms that grab workers’ attention, even in high-noise environments.

A large battery keeps the unit working as long as you do, and side-grip handles help make the base easy to move from location to location.

The Radius BZ1 is available with optional LENS Wireless. With the LENS Wireless technology, your devices will connect once being turned on—with no need for setup or additional infrastructure.

You will instantly receive real time gas readings from other connected instruments on the network, helping your team react faster in emergency situations.

#### No wires:
- Optional LENS Wireless proprietary mesh network
  - Frequency: ISM license-free band (2.4 GHz)
  - Max Peers: 25 devices per network group, 10 independent configurable network groups
  - Range: 300m (approx. 1,000 ft) line of sight
  - Encryption: AES-128
  - Certifications: FCC Part 15, Others
RADIUS BZ1 ASSETS

- Monitor up to seven gases using 15 sensor options including PID
- Longest running area monitor with a usual run time of 7 days (168 hours)
- Built in external safety power supply can extend battery to over 1 month
- Ultra-bright blue and red lights and attention-grabbing alarms with distinctive tones
- Audible alarms sound at 108 dB at 1 m to cut through high-noise environments
- Largest display compared to any area monitor on the market
- Intuitive text-based navigation and configuration
- Customizable alarm action messages such as “EVACUATE” or “VENTILATE”
- Preset LENSTM Wireless communication requires no setup or additional infrastructure
- All-weather sensor deployment and 360-degree gas path for more accurate monitoring

Références cellules

<table>
<thead>
<tr>
<th>Gaz</th>
<th>Plage de mesure</th>
<th>Résolution</th>
<th>Référence</th>
</tr>
</thead>
<tbody>
<tr>
<td>NH3 (ammonia)</td>
<td>0 to 500 ppm</td>
<td>1 ppm</td>
<td>17156650-6</td>
</tr>
<tr>
<td>CO (carbon monoxide)</td>
<td>0 to 1 500 ppm</td>
<td>1 ppm</td>
<td>17156650-1</td>
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<tr>
<td>CO high range (carbon monoxide)</td>
<td>0 to 9 999 ppm</td>
<td>1 ppm</td>
<td>17156650-H</td>
</tr>
<tr>
<td>CO / H2 low (carbon monoxide)</td>
<td>0 to 1 000 ppm</td>
<td>1 ppm</td>
<td>17156650-G</td>
</tr>
<tr>
<td>CO (carbon monoxide) / H2S (hydrogen sulfide)</td>
<td>0 to 1 500 ppm / 0 to 500 ppm</td>
<td>1 ppm / 0,1 ppm</td>
<td>17156650-J</td>
</tr>
<tr>
<td>CO2 (carbon dioxide)</td>
<td>0 to 5 % vol.</td>
<td>0,01 %</td>
<td>17156650-Q</td>
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<tr>
<td>Cl2 (chlorine)</td>
<td>0 to 50 ppm</td>
<td>0,1 ppm</td>
<td>17156650-7</td>
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<tr>
<td>H2 (hydrogen)</td>
<td>0 to 2 000 ppm</td>
<td>1 ppm</td>
<td>17156650-C</td>
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<tr>
<td>H2S (hydrogen sulfide)</td>
<td>0 to 500 ppm</td>
<td>0,1 ppm</td>
<td>17156650-2</td>
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<tr>
<td>HCN (hydrogen cyanide)</td>
<td>0,4 to 30 ppm</td>
<td>0,1 ppm</td>
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<tr>
<td>NO2 (nitrogen dioxide)</td>
<td>0 to 150 ppm</td>
<td>0,1 ppm</td>
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<tr>
<td>O2 (oxygen)</td>
<td>0 to 30 % vol.</td>
<td>0,1 %</td>
<td>18109474-3</td>
</tr>
<tr>
<td>SO2 (sulfur dioxide)</td>
<td>0 to 150 ppm</td>
<td>0,1 ppm</td>
<td>18109476-5</td>
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