The MultiRAE Lite is the optimal one-to-six\textsuperscript{1}-gas monitor for personal protection and leak detection applications. The MultiRAE Lite is available in pumped and diffusion versions and features the broadest selection of sensor options in its class.

The MultiRAE Lite can be configured to exactly meet the detection needs and compliance requirements of various countries, industries, and applications.

The MultiRAE Lite’s optional wireless capability improves safety by providing commanders and safety officers real-time access to instrument readings and alarm status from any location for better situational awareness and faster incident response.

**APPLICATIONS**

Personal protection and multi-gas leak detection in industries such as:

- Chemical
- Food and beverage
- Oil and gas (downstream)
- Pharmaceutical
- Telecommunications
- Wastewater treatment
- Fire overhaul

**FEATURES AND BENEFITS**

- Wireless access to real-time instrument readings and alarm status from any location
- Five-way local and remote wireless notification of alarm conditions including Man Down Alarm\textsuperscript{3}
- Interchangeable sensor options, including PID\textsuperscript{4} for VOCs, NDIRS and catalytic for combustibles, and NDIR for CO\textsubscript{2}
- Intelligent sensors store calibration data, so they can be swapped in the field\textsuperscript{5}
- Large graphical display with easy-to-use, icon-driven user interface
- Continuous datalogging (6 months for 5 sensors, 24x7). Device Management with Honeywell SafetySuite

**EASE & FLEXIBILITY**

- Available in pumped and diffusion versions
- Highly versatile and customizable
- Man Down Alarm with real-time remote wireless notification\textsuperscript{2}
- Easy maintenance with replaceable sensors, pump, and plug-and-play battery
- Fully automatic bump testing and calibration with AutoRAE 2

Confined space testing with the MultiRAE Lite
MultiRAE Lite Specifications

### Instrument Specifications

| Size          | Pumped model: 7.6 in H x 3.8 in W x 2.6 in D (193 mm x 96.5 mm x 66 mm)  
|              | Diffusion model: 6.9 in x 3.8 in x 2.2 in (175 mm x 96.5 mm x 56 mm) |
| Weight       | Pumped model: 31 oz (880 g)  
|              | Diffusion model: 26.8 oz (760 g) |

| Sensors      | Rechargeable Li-ion: ~12 hr (pumped)/18 hr (diffusion) runtime, < 6 hr: recharge time |
|             | Extended duration Li-ion: 18 hr (pumped)/28 hr (diffusion) runtime, < 9 hr: recharge time |

**Time**

- Alkaline adapter with 4 AA batteries: 6 hr (pumped)/8 hr (diffusion) runtime

**Display**

- Monochrome graphical LCD display (128 x 160) with backlighting. Automatic screen “sleep” feature
- Real-time reading of gas concentrations and correction factor; MenDan Alarm on/off, visual compliance indicator, instrument components status
- STEL, TWA, peak, and minimum values

**Keypad Buttons**

- Automatic with AutoRAE 2 Test and Calibration System™ or manual

**Sampling**

- Built-in pump or diffusion

**Calibration**

- Automatic with AutoRAE 2 Test and Calibration System or manual

**Alarms**

- Built-in or external alarm
- Vibration and visible notification
- Pre-alarm and real-time remote wireless notification
- Man Down Alarm on/off, visual compliance indicator, instrument components status
- Flashing bright red LEDs, and on-screen indication of alarm conditions

**Datalogging**

- Continuous datalogging (6 months for 5 sensors at 1-minute intervals, 24/7)
- Download data and upload instrument set-up from PC through charging cord or using BLE module and dedicated APP

**Communication and Data Download**

- Wireless and alarm status transmission via built-in RF modem (optional)
- Mesh RAE Systems Dedicated Wireless Network

**Wireless Network (Typical)**

- Up to 650 ft (200 m) for subGHz Mesh Radio, Up to 330 ft (100 m) for Wi-Fi and RAE Link3 Mesh Modem, Up to 15 ft (5 m) for BLE

**Operating Temperature**

- -4°F to 122°F (-20°C to 50°C)

**Humidity**

- 0% to 95% relative humidity (non-condensing)

**Dust and Water Resistance**

- IP65 (pumped), IP67 (diffusion) ingress protection rating

**Safety Certifications**

- IECEx: Ex ia IIC T4 Ga
- ATEX: Ex ia IIC T4 Ga
- IECEx/ANZE: Ex ia IIC T4 Ga
- IECEx: ATEX: Ex ia IIC T4 Ga
- IECEx/ANZE: Ex ia IIC T4 Ga
- IECEx: Ex ia IIC T4 Ga
- ATEX: Ex ia IIC T4 Ga

**EMC/RF**

- EMC directive: 2004/108/EC

**Performance Tests**

- LEL CSA C22.2 No. 152 (ISA 12.13.01)

**Languages**

- Arabic, Chinese, Czech, Danish, Dutch, English, French, German, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish

**Warranty**

- Four years on LiO₂ sensors
- Three years on CO and H₂S sensors
- Two years on non-combustible components and catalytic LEL sensors
- One year on all other sensors, pump, battery, and other consumable parts

**Wireless Frequency**

- BLE module and dedicated APP

**Wireless Approvals**

- FCC Part 15, CE, BIMTE, Others

**Ordering Information**

- For more information
  - Honeywell Analytics Distribution Inc.
  - Honeywell SafetySuite

**Europe, Middle East, Africa**

- Life Safety Distribution GmbH
- Tel: 011 2 450 5800 (Fixed Gas Detection)
- Tel: 011 2 4752 2700
- Tel: 011 7 6909 0300
- Tel: +91 124 4752 7000
- Tel: +82 (0) 2 6909 0300

**Americas**

- Honeywell Analytics Distribution Inc.
- Tel: +1 847 955 8200
- Toll free: +1 800 538 0363
- dettagas@honeywell.com

**Asia Pacific**

- Honeywell Analytics Asia Pacific
- Tel: +82 (0) 2 6909 0300

**Technical Services**

- EMEA: HAexpert@honeywell.com
- US: ha.us.service@honeywell.com
- AP: ha.ap.service@honeywell.com

Get the full value of our solution by pairing this product with Honeywell Mobile Apps: www.HoneywellSafety.com

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**Sensor Specifications**

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Range</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC</td>
<td>0 to 1,000 ppm</td>
<td>1 ppm</td>
</tr>
<tr>
<td>LEL Carbon Monoxide</td>
<td>0 to 1,000 ppm</td>
<td>1% LEL</td>
</tr>
<tr>
<td>LEL Carbon Monoxide, Ext. Range</td>
<td>0 to 2,000 ppm</td>
<td>10 ppm</td>
</tr>
<tr>
<td>LEL Carbon Monoxide, H₂ COMP.</td>
<td>0 to 2,000 ppm</td>
<td>10 ppm</td>
</tr>
<tr>
<td>LEL Carbon Monoxide (CO)</td>
<td>0 to 500 ppm</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Hydrogen Sulfide (H₂S)</td>
<td>0 to 2 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Chlorine (Cl₂)</td>
<td>0 to 50 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Chlorine Dioxide (ClO₂)</td>
<td>0 to 1 ppm</td>
<td>0.03 ppm</td>
</tr>
<tr>
<td>Ethylene Oxide (ETO-A)</td>
<td>0 to 100 ppm</td>
<td>0.5 ppm</td>
</tr>
<tr>
<td>Ethylene Oxide (ETO-B)</td>
<td>0 to 10 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Ethylene Oxide (ETO-C), Ext. Range</td>
<td>0 to 500 ppm</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Formaldehyde (HCHO)</td>
<td>0 to 10 ppm</td>
<td>0.05 ppm</td>
</tr>
<tr>
<td>Hydrogen (H₂)</td>
<td>0 to 1,000 ppm</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Hydrogen Cyanide (HCN)</td>
<td>0 to 50 ppm</td>
<td>0.5 ppm</td>
</tr>
<tr>
<td>Hydrogen Sulfide (H₂S)</td>
<td>0 to 1,000 ppm</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Hydrogen Sulfide (H₂S), Ext. Range</td>
<td>0 to 1,000 ppm</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Methanol (CH₃OH)</td>
<td>0 to 10 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Nitric Oxide (NO)</td>
<td>0 to 250 ppm</td>
<td>0.5 ppm</td>
</tr>
<tr>
<td>Nitrogen Dioxide (NO₂)</td>
<td>0 to 20 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Oxygen (O₂)</td>
<td>0 to 30% Vol.</td>
<td>0.1% Vol.</td>
</tr>
<tr>
<td>Oxygen (LIQ O₂)</td>
<td>0 to 30% Vol.</td>
<td>0.1% Vol.</td>
</tr>
<tr>
<td>Phosphine (PH₃)</td>
<td>0 to 20 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Phosphine H (PH₃-H)</td>
<td>0 to 20 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Sulfur Dioxide (SO₂)</td>
<td>0 to 20 ppm</td>
<td>0.1 ppm</td>
</tr>
</tbody>
</table>

1. A two-gas combination sensor is required for a 6-gas configuration.
2. When used in line with Honeywell specifications.
3. Additional equipment and/or software licenses may be required to enable remote wireless monitoring and alarm transmission.
4. AutoRAE 2 supports the MultiRAE Lite pumped version only.
5. PID sensor requires a pumped configuration.
6. NDIR combustible sensors require a pumped configuration in CSA countries.
7. RAE Systems recommends calibrating sensors on installation.
8. Specifications are subject to change.
10. Supported in MultiRAE Lite Diffusion only.
11. Please contact Honeywell RAE Systems for specific wireless approvals.