MultiRAE Lite
Wireless Portable Multi-Gas Monitor

The MultiRAE Lite is the optimal one-to-six\(^1\)-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
- Available in pumped and diffusion versions
- Highly versatile and customizable
- Man Down Alarm with real-time remote wireless notification
- 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

**FEATURES & BENEFITS**
- Wireless access to real-time instrument readings and alarm status from any location
- Unmistakable five-way local and remote wireless notification of alarm conditions including Man Down Alarm\(^2\)
- Over 25 interchangeable sensor options, including PID\(^4\) for VOCs, NDIR\(^5\) and catalytic for combustibles, and NDIR for CO\(_2\)
- Intelligent sensors store calibration data, so they can be swapped in the field\(^6\)
- Large graphical display with easy-to-use, icon-driven user interface
- Continuous datalogging (6 months for 5 sensors, 24x7)
- Device Management with Honeywell SafetySuite
MultiRAE Lite Specifications

**INSTRUMENT SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pumped model</td>
<td>7.6” H x 3.8” W x 2.6” D (193 x 95.6 x 66 mm)</td>
</tr>
<tr>
<td>Diffusion model</td>
<td>31 oz (880 g) - Diffusion model: 26.8 oz (760 g)</td>
</tr>
</tbody>
</table>

**Weight**
- Pumped model: 31 oz (880 g) - Diffusion model: 26.8 oz (760 g)
- Over 25 intelligent interchangeable field-replaceable sensors including PID for VOCs, electrochemical sensors for toxic gases and oxygen, combustible LEL and NDIR sensors, and CO2 NDIR sensor.

**Battery Options, Runtime and Recharge**
- 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
- Alkaline adapter with 4 x AA batteries -6 hr. (pumped)/8 hr. (diffusion) runtime

**Display**
- Monochromatic graphic LCD display (128 x 160) with backlighting.
- Automatic screen "flip" feature.
- Real-time reading of gas concentrations, PID measurement gas and connection factor.
- Man Down Alarm on/off, visual compliance indicator, battery status, datalogging on/off, wireless on/off and reception quality.
- STEL, TWA, peak, and minimum values.

**Data Logging**
- Automatic with AutoRAE 2 Test and Configuration System or manual.
- Continuous datalogging (6 months for 5 sensors at 1-minute intervals, 24/7).
- User-configurable datalogging intervals (from 1 to 3,600 seconds).

**Communication and Data Download**
- Data download and instrument set-up and upgrades on PC via desktop charging and PC Comm.
- ProRAE Guardian Real-Time Wireless System or EchoView Host-based Closed-Loop System
- MultiRAE Lite to RAELink3 (Z1) Mesh modem -330 feet (100 meters)
- MultiRAE Lite to EchoView Host, RAEMesh Reader or RAEMeshPoint -660 feet (200 meters)
- MultiRAE Lite to Wi-Fi Access Point -330 feet (100 meters)

**Operating Temperature**
- -4° to 122°F (-20° to 50°C)

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

**Dust and Water Resistance**
- IP-65 (pumped), IP-67 (diffusion)
- Ingress protection rating

**Safety Certifications**
- CSA: Class I, Division 1, Groups A, B, C and D, T4
- ATEX: 0575 II 1G Ex ia IIC T4 Ga with IR Sensor installed
- IECEx: Ex ia IIC T4 Ga
- IECEx/ANZEx: Ex ia IIC T4 Ga
- EN 50014: 2001 IP-65

**EMC/RFI**
- EMC directive 2004/108/EC

**Performance Tests**
- LEL CSA C22.2 No. 152/IS A12.13.01

**Languages**
- Arabic, Chinese, Czech, Danish, Dutch, English, French, German, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish
- Four years on LiO2 sensors
- Three years on CO and H2S sensors
- Two years on non-consulable components and catalytic LEL sensors
- One year on all other sensors, pump, battery, and other consumable parts

**Wireless Frequency**
- ISM license free band: IEEE 802.15.4 Sub 1GHz - Wi-Fi 802.11 b/g

**Wireless Approvals**
- FCC Part 15, CE, R&TTE, Others
- Supports RM900A

**Radio Module**
- Supports RM900A

**Specifications**

**Instrument Specifications**

<table>
<thead>
<tr>
<th>Sensor Specifications</th>
<th>Range</th>
<th>Resolution</th>
</tr>
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<tbody>
<tr>
<td>VOC10.6 EV</td>
<td>0 to 1,000 ppm</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Catalytic Sensors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LEL</td>
<td>0 to 10% LEL</td>
<td>1% LEL</td>
</tr>
<tr>
<td>Hydrogen (H2)</td>
<td>0 to 20 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Oxygen (O2)</td>
<td>0 to 20% 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>Sulfur Dioxide (SO2)</td>
<td>0 to 20 ppm</td>
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<td>Catalytic Sensors</td>
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</tr>
<tr>
<td>LEL</td>
<td>0 to 100% LEL</td>
<td>1% LEL</td>
</tr>
<tr>
<td>Hydrogen (H2)</td>
<td>0 to 1,000 ppm</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Oxygen (O2)</td>
<td>0 to 500 ppm</td>
<td>10 ppm</td>
</tr>
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<td>Phosphine (PH3)</td>
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**Ordering Information**

- Wireless2 and non-wireless configurations are available
- Refer to the Portables Pricing Guide for part numbers for monitors, accessories, sampling and calibration kits, gas, sensors, and replacement parts

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For more information:
- [www.honeywellanalytics.com](http://www.honeywellanalytics.com)
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Device Management with Honeywell SafetySuite

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By microwave sensor application, this instrument is designed for a repetitive measurement system and can be used to monitor multiple gases. It is equipped with a microprocessor that allows for automatic data logging and data transfer to a computer.

- Honeywell SafetySuite
- honeywellanalytics.com/SafetySuite