MultiRAE Pro
Wireless Portable Multi-Threat Radiation and Chemical Detector

The MultiRAE Pro is the industry’s only portable wireless multi-threat monitor. The MultiRAE Pro’s ability to simultaneously detect gamma radiation and toxic industrial chemicals (TICs/TIMs) enables responders to reduce the equipment footprint and achieve greater agility when operating downrange.

The MultiRAE Pro’s optional wireless capability improves safety by providing commanders and safety officers real-time access to instrument readings and alarm status from any location¹ for better situational awareness and faster incident response.

APPLICATIONS
- Civil defense (search and rescue)
- Homeland security
- HazMat response
- Military
- Semiconductor manufacturing
- Environmental

CBRN detection with the MultiRAE Pro

FEATURES & BENEFITS
- Detector of choice for government agencies and top HazMat teams worldwide
- Highly versatile and customizable
- Man Down Alarm with real-time remote wireless notification
- Compliant with MIL-STD-810G and 461F performance standards
- Fully automatic bump testing and calibration with AutoRAE 2

- All-in-one monitoring capabilities for radiation, VOCs, oxygen, toxic and combustible gases, up to 6 threat types at a time¹
- Over 25 interchangeable sensor options, including parts-per-billion PID and gamma radiation
- Wireless access to real-time instrument readings and alarm status from any location
- Unmistakable five-way local and remote wireless notification of alarm conditions
- Intelligent sensors store calibration data, so they can be swapped in the field¹
- Large graphical display with easy-to-use, icon-driven user interface
- Device Management with Honeywell SafetySuite
## MultiRAE Pro Specifications

### Instrument Specifications

<table>
<thead>
<tr>
<th><strong>Size</strong></th>
<th>7.6&quot; H x 3.8&quot; W x 2.6&quot; D (193 x 96.5 x 66 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight</strong></td>
<td>31 oz (880 g)</td>
</tr>
<tr>
<td><strong>Sensors</strong></td>
<td>Over 25 intelligent interchangeable field-replaceable sensors including gamma radiation, ppb and ppm PID sensors for VOCs, electrochemical sensors for toxic gases and oxygen, combustible LE and ND sensors, and CO, ND, and N2D sensor</td>
</tr>
</tbody>
</table>
| **Battery Options, Run Times and Recharge Time** | - Rechargeable Li-ion (12 hr. runtime, <6 hr. recharge time)  
- Extended duration Li-ion (18 hr. runtime, <9 hr. recharge time)  
- Alkaline battery with 4 AA batteries (6 hr. runtime) |
| **Display** | Monochrome graphical LCD display (128 x 160) with backlighting |
| **Display Readout** | - Real-time reading of gas concentrations, PID measurement gas and correction factor  
- Man Down Alarm and off, visual compliance indicator, battery status, data logging on/off, wireless on/off and reception quality  
- STEL, TWA, peak, and minimum values |
| **Keypad Buttons** | 3 operation and programming keys (Mode, Y1, and Y2) |
| **Sampling** | Built-in pump. Average flow rate: 250 cc/min. Auto shutdown in low-flow conditions |
| **Calibration** | Automatic with AutoRAE 2 Test and Calibration System or manual |
| **Alarms** | Wireless remote alarm notification, multi-tone audible (95 db @ 30 cm.), vibration, visible (flashing bright red LEDs), and on-screen indication of alarm conditions  
- Man Down Alarm with pre-alarm and real-time remote wireless notification |
| **Datalogging** | Continuous data logging (6 months for 4 sensors at 1-minute intervals, 24/7)  
- User-configurable data logging intervals (from 1 to 3,600 seconds) |
| **Communication and Data Download** | - Data download and instrument setup and upgrades on PC via desktop charging and PC comm. cradle, travel charger, or AutoRAE 2 Automatic Test and Calibration System  
- Wireless data and alarm status transmission via built-in RF modem (optional) |
| **Wireless Network** | ProRAE Guardian Real-Time Wireless Safety System or EchoView Host-based Closed-Loop System |
| **Wireless Range (Typical)** | - MultiRAE Pro to Access Point ~ 330 feet (100 meters)  
- Wireless data and alarm status transmission via built-in RF modem (optional) |
| **Operating Temperature** | -4°C to 50°C (24°F to 122°F) |
| **Humidity** | 0% to 95% relative humidity (non-condensing) |
| **Dust and Water Resistance** | IP-65 ingress protection rating |
| **Safety Certifications** | CSA: Class I, Division 1, Groups A, B, C and D, T4  
ATEX: IIC, II2G Ex i IIC T4 Ga  
IECEx: Ex ia IIC T4 Ga  
IECEx/ANZEx: Ex ia IIC T4 Ga  
EMC directive: 2004/108/EC  
EM/91/95: EMC directive: 2004/108/EC  
Performance Tests: MIL STD 810G and 461F compliant. 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 LiQ O2 sensors  
- Three years on CO and H2S sensors  
- Two years on non-compatible components and catalytic LE 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/n  
Wireless Approvals: FCC Part 15, CE Radio, Other* |
| **Radio Module** | Supports RM90A |

### Sensor Specifications

<table>
<thead>
<tr>
<th><strong>Radiation Sensors</strong></th>
<th>Range</th>
<th>Sensor Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Carbon Dioxide (CO2) NDIR</td>
<td>0 to 250 ppm</td>
<td>0.5 ppm</td>
</tr>
<tr>
<td>- Oxygen (O2)</td>
<td>0 to 20,000 ppm</td>
<td>1 ppm</td>
</tr>
<tr>
<td>- Hydrogen Cyanide (HCN)</td>
<td>0 to 200 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>- Hydrogen Sulfide (H2S)</td>
<td>0 to 50,000 ppm</td>
<td>1 ppm</td>
</tr>
<tr>
<td>- Ethylene Oxide (ETO-A)</td>
<td>0 to 200 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>- Formaldehyde (HCHO)</td>
<td>0 to 10 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>- Hydrogen Sulfide (H2S)</td>
<td>0 to 1 ppm</td>
<td>0.03 ppm</td>
</tr>
<tr>
<td>- Ethylene Oxide (ETO-B)</td>
<td>0 to 1 ppm</td>
<td>0.03 ppm</td>
</tr>
<tr>
<td>- Nitrogen Dioxide (NO2)</td>
<td>0 to 1 ppm</td>
<td>0.03 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 10 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>- Phosphine (PH3)</td>
<td>0 to 10 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>- Phosphine (PH3)</td>
<td>0 to 10 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>- Sulfur Dioxide (SO2)</td>
<td>0 to 1 ppm</td>
<td>0.1 ppm</td>
</tr>
</tbody>
</table>

### Additional Information

- **For more information**
  - www.honeywellanalytics.com  
  - www.raesystems.com

- **Europe, Middle East, Africa**
  - Life Safety Distribution GmbH  
    - Tel: 00800 333 222 44/Freephone number  
    - Tel: +41 44 943 4380 (Alternative number)

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    - tolls@honeywell.com  
    - Honeywell RAE Systems  
      - Phone: +1 408 952 8200  
      - Toll Free: +1 888 723 4800

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  - honeywellanalytics.com/safety-suite

- **Device Management with Honeywell SafetySuite**

- **Ordering Information**
  - Model: PGM-6248
  - Wireless 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

Datasheet MultiRAE Pro DS-1068-11 US-EN

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