MultiRAE

Wireless Portable Six-Gas Monitor with Advanced VOC Detection Capability

The MultiRAE is one of the most advanced portable chemical detectors on the market, and delivers the broadest PID sensor range in its class.

It has the versatility to support more than 25 intelligent interchangeable sensor options to fully meet monitoring needs in a variety of applications. These include Industrial Hygiene, Personal Protection, Leak Detection, Confined Space Entry pre-screening where Benzene might be present, and HazMat response.

The MultiRAE’s optional wireless capability improves safety by providing commanders and safety managers real-time access to instrument readings and alarm status from any location for better situational awareness and faster incident response. Its Bluetooth® Low Energy (BLE) module and Honeywell Mobile App suite provide enhanced datalogging and connectivity capabilities.

APPLICATIONS
• Industrial hygiene, Personal protection, Leak detection, Confined space entry pre-screening, and Plant shutdown in industries such as:
  - Aviation wing tank entry
  - Chemical
  - Environmental
  - Oil & gas
  - Pharmaceutical
  - Shipping marine
• Hazmat response
• Clandestine drug labs

FEATURES AND BENEFITS

Wireless access to real-time instrument readings and alarm status from any location
Multiple connectivity capabilities through multiple wireless module options

Five-way local and remote wireless notification of alarm conditions including Man Down Alarm

Intelligent sensors store calibration data, so they can be swapped in the field. Versatile multi-gas and Benzene-specific modes.

Extensive on-board gas libraries. Largest display in its class

Continuous datalogging (6 months for 5 sensors, 24x7). Device Management with Honeywell SafetySuite

EASE & FLEXIBILITY
• Highly versatile and customizable
• Enhanced PID (0 to 5,000 ppm range, 0.1 ppm resolution)
• Benzene-specific measurement up to 200 ppm with 0.1 ppm resolution
• Man Down Alarm with real-time remote wireless notification
• Compliant with MIL-SPEC-810G performance standard
• Fully automatic bump testing and calibration with AutoRAE 2
### MultiRAE Specifications

#### Instrument Specifications

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SIZE</strong></td>
<td>7.6 in x 3.8 in x 2 in D / (193 mm x 96.5 mm x 66 mm)</td>
</tr>
<tr>
<td><strong>WEIGHT</strong></td>
<td>31 oz [880 g]</td>
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<tr>
<td><strong>SENSORS</strong></td>
<td>Intelligent interchangeable field replaceable sensors</td>
</tr>
<tr>
<td><strong>BATTERY OPTIONS</strong>, <strong>RUNTIME</strong> &amp; <strong>RECHARGE TIME</strong></td>
<td></td>
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<tr>
<td>Rechargeable Li-ion (-12 hour runtime, 6 hour recharge time)</td>
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<tr>
<td>Alkaline adapter with 6 AA batteries (-6 hour runtime)</td>
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<tr>
<td><strong>DISPLAY</strong></td>
<td>Monochrome graphical LCD display (128 x 160) with backlighting, Automatic screen “flip” feature</td>
</tr>
<tr>
<td><strong>DISPLAY READOUT</strong></td>
<td>Real-time reading of gas concentrations and correction factor, Man Down Alarm on/off, visual compliance indicator, instrument components status</td>
</tr>
<tr>
<td><strong>KEYPAD BUTTONS</strong></td>
<td>3 operation and programming keys (Mode, Y/+, and N-)</td>
</tr>
<tr>
<td><strong>SAMPLING</strong></td>
<td>Built-in pump, Average flow rate: 250 cc/min, Auto shutoff in low-flow conditions</td>
</tr>
<tr>
<td><strong>CALIBRATION</strong></td>
<td>Automatic with MultiRAE 2 Test and Calibration System or manual</td>
</tr>
<tr>
<td><strong>ALARMS</strong></td>
<td>Wireless remote alarm notification, audible (95 dB @ 30 cm), vibration, visible (flashing bright red LEDs), and on-screen indication of alarm conditions</td>
</tr>
<tr>
<td><strong>DATALOGGING</strong></td>
<td>Continuous datalogging (6 months for 5 sensors at 1-minute intervals, 24/7)</td>
</tr>
<tr>
<td><strong>COMMUNICATION AND DATA DOWNLOAD</strong></td>
<td>Download data and upload instrument set-up from PC through charging cradle or using BLE module and dedicated App</td>
</tr>
<tr>
<td><strong>WIRELESS NETWORK</strong></td>
<td>RAE Systems Dedicated Wireless Network</td>
</tr>
<tr>
<td><strong>WIRELESS RANGE (TYPICAL)</strong></td>
<td>Up to 650 ft [200 m] for sub 1 GHz Mesh Radio</td>
</tr>
<tr>
<td><strong>OPERATING TEMPERATURE</strong></td>
<td>-4°F to 122°F (-20°C to 50°C)</td>
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<tr>
<td><strong>HUMIDITY</strong></td>
<td>0% to 95% relative humidity (non-condensing)</td>
</tr>
<tr>
<td><strong>DUST AND WATER RESISTANCE</strong></td>
<td>IP65 ingress protection rating</td>
</tr>
<tr>
<td><strong>SAFETY CERTIFICATIONS</strong></td>
<td>CSA: Class I, Division 1, Groups A, B, C, and D T4</td>
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<tr>
<td></td>
<td>ATEX: Ex II 1G Ex ia IIC T4 Ga</td>
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<td>IEC Ex: Ex ia IIC T4 Ga</td>
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<td>EMC/RFI: EMC directive 2004/108/EC</td>
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<tr>
<td><strong>PERFORMANCE TESTS</strong></td>
<td>MIL-STD-810G and IEC 68-11619 compliant, LEL CSA C22.2 No. 152, ISA-12.13.01</td>
</tr>
<tr>
<td><strong>LANGUAGES</strong></td>
<td>Arabic, Chinese, Czech, Danish, Dutch, English, French, German, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish</td>
</tr>
<tr>
<td><strong>WARRANTY</strong></td>
<td>Four years on LiO₂ sensors</td>
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<td>Three years on CO and H₂S sensors</td>
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<td>Two years on non-consumable components and catalytic LEL sensors</td>
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<td></td>
<td>One year on all other sensors, pump, battery, and other consumable parts</td>
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<tr>
<td><strong>WIRELESS FREQUENCY</strong></td>
<td>ISM license-free band: IEEE 802.15.4 Sub 1 GHz, IEEE 802.11 bands b/n/g 2.4 GHz</td>
</tr>
<tr>
<td><strong>WIRELESS APPROVALS</strong></td>
<td>FCC Part 15, CE R&amp;TTE, Other³</td>
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</tbody>
</table>

#### Ordering Information

**(MODEL: PGM-6228)**

- 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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**Get the full value of our solution by pairing this product with Honeywell Mobile Apps.**

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**Device Management with Honeywell SafetySuite**

honeywellanalytics.com/SafetySuite

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**HGS_DS_MultiRAE_US-EN_0819**

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References:

2. Additional equipment and/or software licenses may be required to enable remote wireless monitoring and alarm transmission.
3. Contact Honeywell RAE Systems for country specific wireless approvals and certifications.
4. Requires Benzene RAE-Sep Tube Cartridge.