MultiRAE
Wireless portable six-gas monitor with advanced VOC detection capability

The MultiRAE is the most advanced portable chemical detector on the market. The MultiRAE delivers the broadest PID sensor range in its class and the versatility to support 25 intelligent interchangeable sensor options (such as PID, NDIR for combustibles and CO₂, ammonia, chlorine, formaldehyde, and phosphine) to fully meet the monitoring needs in a variety of applications, including industrial hygiene, personal protection, leak detection, and HazMat response.

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

Applications
- Industrial hygiene, personal protection, and leak detection in industries such as:
  - Aviation (wingtankentry)
  - Chemical
  - Environmental
  - Oil and gas
  - Pharmaceutical
  - Shipping/marine
- HazMat response
- Clandestine drug labs

FEATURES & BENEFITS

- Highly versatile and customizable
- Best PID in its class (0 to 5,000 ppm range, 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 used for worker exposure monitoring at an oil refinery

- Wireless access to real-time instrument readings and alarm status from any location¹
- Unmistakable five-way local and remote wireless notification of alarm conditions, including Man Down Alarm¹
- Intelligent sensors store calibration data, so they can be swapped in the field²
- Extensive on-board gas libraries (190 VOCs and 55 combustible gases)
- Largest display in its class
- Continuous datalogging (6 months for 5 sensors, 24x7)
- Device Management with Honeywell SafetySuite
MultiRAE Specifications

<table>
<thead>
<tr>
<th>INSTRUMENT SPECIFICATIONS</th>
<th>RANGE</th>
<th>RESOLUTION</th>
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<tbody>
<tr>
<td>SIZE</td>
<td>7.6” H x 3.8” W x 2.6” D (193 x 96.5 x 66 mm)</td>
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<tr>
<td>WEIGHT</td>
<td>31 oz (880 g)</td>
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<tr>
<td>SENSORS</td>
<td>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</td>
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<tr>
<td>BATTERY OPTIONS, RÜNTME AND RECHARGE TIME</td>
<td>- Rechargeable Li-ion (~12-hr runtime, ~6-hr recharge time) - Extended duration Li-ion (~18-hr runtime, ~9-hr recharge time) - Alkaline adapter with 4 x AA batteries (~6-hr runtime)</td>
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<tr>
<td>DISPLAY</td>
<td>Monochrome graphic LCD display (128 x 160) with backlighting. Automatic screen “flip” feature.</td>
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<tr>
<td>DISPLAY READOUT</td>
<td>- Real-time reading of gas concentrations; PID measurement gas and correction factor; Man Down Alarm on/off; visual compliance indicator, battery status; datalogging on/off, wireless on/off and reception quality.</td>
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<tr>
<td>STEL, TWA, peak, and minimum values</td>
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<tr>
<td>KEYPAD BUTTONS</td>
<td>3 operation and programming keys (Mode, V+/-, and N-/-)</td>
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<tr>
<td>SAMPLING</td>
<td>Built-in pump. Average flow rate: 250 cc/min. Auto shutoff in low-flow conditions</td>
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<tr>
<td>CALIBRATION</td>
<td>Automatic with AutoRAE 2 Test and Calibration System or manual</td>
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<tr>
<td>ALARMS</td>
<td>Wireless remote alarm notification; audible (95 dB @ 30 cm), vibration (flashing bright red LEDs), and on-screen indication of alarm conditions</td>
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<tr>
<td>- Man Down Alarm on/off and real-time remote wireless notification</td>
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<tr>
<td>DATALOGGING</td>
<td>Continuous datalogging (6 months for 5 sensors at 1-minute intervals, 24/7)</td>
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<tr>
<td>COMMUNICATION AND DATA DOWNLOAD</td>
<td>- User-configurable datalogging intervals (from 1 to 3,600 seconds) - Data download and instrument set-up and upgrades on PC via desktop charging and PC commander, travel charger, or AutoRAE 2 Automatic Test and Calibration System</td>
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</tr>
<tr>
<td>WIRELESS NETWORK</td>
<td>ProRAE Guardian Real-Time Wireless Safety System or EchoView Host-based Closed Loop System</td>
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<tr>
<td>WIRELESS RANGE (TYPICAL)</td>
<td>MultiRAE to RF Link3 (71) Mesh modem - ~330 feet (100 meters) MultiRAE to EchoView Host, RAEMesh Reader or RAEPoint - ~660 feet (200 meters) MultiRAE to Wi-Fi Access Point - ~330 feet (100 meters)</td>
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<tr>
<td>OPERATING TEMPERATURE</td>
<td>-4°F to 122°F (-20°C to 50°C)</td>
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<tr>
<td>HUMIDITY</td>
<td>0% to 95% relative humidity (non-condensing)</td>
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<tr>
<td>DUST AND WATER RESISTANCE</td>
<td>IP-65 ingress protection rating (dust-tight and waterproof against hosing jets coming from all directions)</td>
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<tr>
<td>CS&amp;</td>
<td>Class I Div 2 Group A, B, C, and D, T4</td>
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<tr>
<td>ATEx</td>
<td>0575 II 1G Ex ia IIC T4 G</td>
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<tr>
<td>IECEx</td>
<td>Ex ia IIC T4 Ga</td>
<td></td>
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<tr>
<td>IECEx/ANZEx</td>
<td>Ex ia IIC T4 Ga, Ex ia IIC T4 Go with IR Sensor installed</td>
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<tr>
<td>EMC/RFI PERFORMANCE TESTS</td>
<td>MIL-STD-810G and 461F compliant. Life Safety Certification: CSA C22.2 No. 152; ISA-12.13.01</td>
<td></td>
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<tr>
<td>LANGUAGES</td>
<td>Arabic, Chinese, Czech, Danish, Dutch, English, French, German, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish</td>
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<tr>
<td>WARRANTY</td>
<td>- Four years on LiQ O2 sensors - Three years on CO and H2S sensors - Two years on non-consumable components and catalytic LEL sensors - One year on all other sensors, pump, battery, and other consumable parts</td>
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<tr>
<td>WIRELESS FREQUENCY</td>
<td>MultiRAE to Wi-Fi Access Point - ~330 feet (100 meters)</td>
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<tr>
<td>WIRELESS APPROVALS</td>
<td>CRF Part 15, CE-EMTTE. Other as available</td>
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<tr>
<td>RADIO MODULE</td>
<td>Supports RM900A</td>
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SPECIAL FEATURES:
- Rechargeable Li-ion battery with ~12-hour runtime, ~6-hour recharge time
- Extended duration Li-ion battery with ~18-hour runtime, ~9-hour recharge time
- Alkaline adapter with 4 x AA batteries for ~6-hour runtime
- Monochrome graphic LCD display with backlighting and automatic screen “flip” feature
- Real-time reading of gas concentrations, PID measurement gas, correction factor, Man Down alarm on/off, visual compliance indicator, battery status, datalogging on/off, wireless on/off and reception quality
- 3 operation and programming keys (Mode, V+/-, and N-/-)
- Built-in pump with average flow rate of 250 cc/min. Auto shutoff in low-flow conditions
- Automatic test and calibration system
- Wireless remote alarm notification, audible (95 dB @ 30 cm), vibration (flashing bright red LEDs), and on-screen indication of alarm conditions
- Continuous datalogging (6 months for 5 sensors at 1-minute intervals, 24/7)
- User-configurable datalogging intervals (from 1 to 3,600 seconds)
- Data download and instrument set-up and upgrades on PC via desktop charging and PC commander, travel charger, or AutoRAE 2 Automatic Test and Calibration System
- ProRAE Guardian Real-Time Wireless Safety System or EchoView Host-based Closed Loop System
- MultiRAE to RF Link3 (71) Mesh modem - ~330 feet (100 meters)
- MultiRAE to EchoView Host, RAEMesh Reader or RAEPoint - ~660 feet (200 meters)
- MultiRAE to Wi-Fi Access Point - ~330 feet (100 meters)
- Wireless data and alarm status transmission via built-in RF modem (optional)
- -4°F to 122°F (-20°C to 50°C)
- 0% to 95% relative humidity (non-condensing)
- IP-65 ingress protection rating (dust-tight and waterproof against hosing jets coming from all directions)
- Class I Div 2 Group A, B, C, and D, T4
- 0575 II 1G Ex ia IIC T4 G
- Ex ia IIC T4 Ga
- Ex ia IIC T4 Go with IR Sensor installed
- Ex ia IIC T4 Ga, Ex ia IIC T4 Go with IR Sensor installed
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- Ex ia IIC T4 Ga, Ex ia IIC T4 Go with IR Sensor installed
- MIL-STD-810G and 461F compliant
- Arabic, Chinese, Czech, Danish, Dutch, English, French, German, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish
- - Four years on LiQ O2 sensors - Three years on CO and H2S sensors - Two years on non-consumable components and catalytic LEL sensors - One year on all other sensors, pump, battery, and other consumable parts
- MultiRAE to Wi-Fi Access Point - ~330 feet (100 meters)
- Supports RM900A

For more information:
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- www.raesystems.com

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Ordering Information
- 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

Device Management with Honeywell SafetySuite
honeywellanalytics.com/SafetySuite