The UltraRAE 3000 is the most advanced Compound-Specific Monitor on the market. Its Photoionization Detector’s (PID) extended range of 0.05 to 10,000 ppm in VOC mode and 50 ppb to 200 ppm in benzene-specific mode makes it an ideal instrument for applications, from entry pre-screening during refinery and plant maintenance to hazardous material response, marine spill response and refinery down-stream monitoring.

KEY FEATURES
- Proven PID technology
  - 3-second response in VOC mode or 60 seconds in compound-specific mode
  - Extended range up to 10,000 ppm (in VOC mode) with improved linearity
  - Built-in humidity sensor
  - Automatic temperature-controlled sampling time calculation
  - Highly specific readings, combining a 9.8eV UV lamp and RAE-Sep™ benzene tube
- New sampling probe design provides instant tube-breakthrough visibility
- Versatile VOC or Benzene-Specific modes
- Real-time wireless built-in – Bluetooth (and optional RAELink3 portable modem) or Mesh Network support
- Integrated RAE Systems Correction Factors list for more than 200 compounds

Easy to Use
- Large graphic display
- Multi-language support
- Easy access to lamp, sensor and battery in seconds without tools

Low Cost of Ownership
- Inexpensive analysis using low-cost RAE-Sep tubes

Applications
- Confined space entry pre-screening during refinery and plant maintenance
- Hazardous material response
- Marine spill response
- Refinery down-stream monitoring
- Plant overhaul

Workers can easily and quickly obtain VOC readings anywhere in the facility with the RAE Systems UltraRAE 3000
### UltraRAE 3000 Ordering Options

#### Monitor Only Includes
- UltraRAE 3000 Monitor, Model PGM-7360
- Wireless communication module built-in
- Datalogging with ProRAE Studio II Package for Windows®, XP, Windows® Vista, or Windows® 7
- Travel Charger
- RAE UV lamp and RAE-Sep™ Tubes
- Flex-I-Probe™ and short probe
- External filter
- Red rubber boot
- Alkaline battery adapter
- Lamp-cleaning kit
- Tool kit
- Lithium-ion (Li-Ion) battery with universal AC/DC charger and international plug kit
- Operation CD-ROM
- Operation & Maintenance manual
- Soft leather carrying case

#### Monitor with Accessories Kit
- Hard transport case with pre-cut foam padding
- Charging/download cradle
- 5 porous metal filters and O-rings
- Organic vapor zeroing kit
- Gas outlet port adapter and tubing

#### Optional Calibration Kit
- Calibration gas, 34L, as specified
- Calibration regulator and flow controller

#### Optional Guaranteed Cost of Ownership Program
- 4-year repair and replacement guarantee
- Annual maintenance service

### Ordering Information
Monitor with Accessories and Calibration Kit (PN 059-D311-200)

## Specifications

### Monitor Specifications

**Size**
10” L x 3.0” W x 2.5” H (25.5 x 7.6 x 6.4 cm)

**Weight**
26 oz (738 g)

**Sensors**
Photoionization sensor with standard 9.8 eV or optional 10.6 eV or 11.7 eV lamps

**Battery**
- Rechargeable, external field-replaceable lithium-ion battery pack
- Alkaline battery adapter

**Operating Hours**
16 hours of operation

**Display Graphic**
4 lines, 28 x 43mm

**Keypad**
1 operation and 2 programming keys, 1 flashlight on/off button

**Direct Readout**
- VOCs as ppm by volume
- High and low values
- STEL and TWA
- Battery and shutdown voltage
- Date, time, temperature

**Alarms**
- 95dB buzzer (at 12”/30 cm) and flashing red LED to indicate exceeded preset limits
- High: 3 beeps and flashes per second
- Low: 2 beeps and flashes per second
- STEL and TWA: 1 beep and flash per second
- Alarms latching with manual override or automatic reset
- Additional diagnostic alarm and display message for low battery and pump stall

**EMC/RF**
Compliant with EMC directive (2004/108/EC)
EMI and ESD test: 100MHz to 1GHz 30V/m, no alarm
Contact: ±4kV
Air: ±8kV, no alarm

**IP Rating**
IP-65, unit running

**Datalogging**
Standard 6 months at one-minute intervals

**Calibration**
2-point or 3-point calibration for zero and span. Calibration memory for 8 calibration gases, alarm levels, span values and calibration dates

**Sampling Pump**
- Internal, integrated flow rate at 400 cc/min
- Sample from 100’ (30m) horizontally and vertically

**Low Flow Alarm**
Auto shut-off pump at low-flow condition

**Communication & Data Download**
- Download data and upload instrument set-up from PC through charging cradle or optional Bluetooth®
- Wireless data transmission through built-in RF modem

**Wireless Network**
Mesh RAE Systems Dedicated Wireless Network

**Wireless Range (Typical)**
- EchoView Host: LOS > 660 ft (200 m)
- ProRAE Guardian & RAEMesh Reader: LOS > 660 ft (200 m)
- ProRAE Guardian & RAELink3 Mesh: LOS > 330 ft (100 m)

**Safety Certifications**
- US and Canada: Class I, Div Group A, B, C, D.
- Europe: ATEX II 2G Ex ia IIC T4
- IECEx CSA 10.0005 Ex ia IIC/IIB Gb T4

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

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

**Attachments**
Durable bright red rubber boot

**Warranty**
3 years for 10.6 eV lamp, 1 year for 9.8 eV lamp, pump, battery, sensor and instrument

**Wireless Frequency**
ISM license-free band. IEEE 802.15.4 Sub 1GHz

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

**Radio Module**
Supports Bluetooth or RM900

1 Contact RAE Systems for country-specific wireless approvals and certificates.

### Sensor Specifications

<table>
<thead>
<tr>
<th>Gas Monitor</th>
<th>Range</th>
<th>Resolution</th>
<th>Response Time (T90)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOCs</td>
<td>0 to 99.99 ppm</td>
<td>0.025 ppm</td>
<td>&lt; 3 sec</td>
</tr>
<tr>
<td>100 to 999.9 ppm</td>
<td>0.1 ppm</td>
<td>&lt; 3 sec</td>
<td></td>
</tr>
<tr>
<td>1000 to 9999 ppm</td>
<td>1 ppm</td>
<td>&lt; 3 sec</td>
<td></td>
</tr>
<tr>
<td>Benzene</td>
<td>0 to 200 ppm</td>
<td>0.025 ppm</td>
<td>&lt; 60 sec</td>
</tr>
<tr>
<td>Butadiene</td>
<td>0 to 200 ppm</td>
<td>0.025 ppm</td>
<td>&lt; 60 sec</td>
</tr>
</tbody>
</table>

### Corporate Headquarters
RAE Systems by Honeywell
3775 North First Street
San Jose, CA 95134 USA
RAE-InsideSales@honeywell.com

### Worldwide Sales Offices
- USA/Canada: 1.877.723.2878
- Europe: +800.333.222.44/+41.44.943.4380
- Middle East: +971.4.450.5852
- China: +86.10.5885.8788-3000
- Asia Pacific: +852.2669.0828

www.raesystems.com