Honeywell

THE POWER OF **CONNECTED**

# UltraRAE 3000+

## Portable Handheld Compound-Specific VOC Monitor

The UltraRAE 3000+ is one of the most advanced Compound-Specific Monitors on the market. Its Photoionization Detector's (PID) extended range of 0.01 to 10,000 ppm in VOC mode and 10 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.

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

- Dual detection mode for total benzene exposure assessment: 60-second snapshot or 15-minute STEL measurement
- High sensitivity to benzene provides a lower detection range for future benzene exposure limits
- Lower risk of false alarms through advanced speciation method
- Total VOC measurement mode with extended range of 0.01 to 10,000 ppm

## FEATURES & BENEFITS

- Versatile VOC or Benzene-Specific modes
- Cost effective solution and low-cost RAE-Sep™ tubes
- Reflex PID Technology™
- Highly specific readings, combining a 9.8eV UV lamp and RAE-Sep™ benzene tube
- Built-in humidity sensor with Automatic temperature-controlled sampling time calculation
- See-through Sampling probe design for instant tube-breakthrough visibility
- Highly connectivity capability through multiple wireless module options
- Multi-language support
- Easy access to lamp, sensor and battery in seconds without tools

## APPLICATIONS

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

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## Instrument 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<br>• Alkaline battery adapter |
| Running time | 16 hours of operation |
| Display Graphic | 4 lines, 28 x 43 mm |
| Keypad | 1 operation and 2 programming keys, 1 flashlight on/off button |
| Direct Readout | • VOCs as ppm by volume<br>• High and low values<br>• STEL and TWA<br>• Battery and shutdown voltage<br>• Date, time, temperature |
| Alarms | 95dB buzzer at 12" (30 cm) and flashing red LED to indicate exceeded preset limits<br>• High: 3 beeps and flashes per second<br>• Low: 2 beeps and flashes per second<br>• STEL and TWA: 1 beep and flash per second<br>• Alarms latching with manual override or automatic reset<br>• Additional diagnostic alarm and display message for low battery and pump stall |
| EMC/RFI | Compliant with EMC directive (2004/108/EC)<br>EMI and ESD test: 100MHz to 1GHz 30V/m, no alarm<br>Contact: ±4kV<br>Air: ±8kV, no alarm |
| IP Rating | IP-65 unit running |
| Datalogging | Standard 6 months at one-minute intervals |
| Calibration | Two-point or three-point calibration for zero and span<br>Reflex PID Technology™<br>Calibration memory for 8 calibration gases, alarm limits, span values and calibration dates |
| Sampling Pump | • Internal, integrated flow rate at 400 cc/mn<br>• Sample from 100' (30m) horizontally or vertically |
| Low Flow Alarm | Auto pump shutoff at low-flow condition |
| Communication & Data Download | • Download data and upload instrument set-up from PC through charging cradle or using BLE module and dedicated APP<br>• Wireless data transmission through built-in RF modem |
| Wireless Network | Mesh RAE Systems Dedicated Wireless Network |
| Wireless Range (Typical) | Up to 15ft (5m) for BLE<br>EchoView Host: LOS > 660 ft (200 m)<br>ProRAE Guardian & RAEMesh Reader: LOS > 660 ft (200 m)<br>ProRAE Guardian & RAELink3 Mesh: LOS > 330 ft (100 m) |
| Safety Certifications | **US and Canada:** CSA, Classified as Intrinsically Safe for use in Class I, Division 1 Groups A, B, C, D<br>**Europe:** ATEX II 2G EEx ia IIC T4<br>IECEx CSA 10.0005 Ex ia IIC/IIB GbT4 |
| Temperature | -4° to 122° F (-20° to 50° C) |
| Humidity | 0% to 95% relative humidity (non-condensing) |
| Attachments | Durable bright red rubber boot |

## Instrument Specifications

| | |
|---|---|
| Warranty | 3 years for 10.6 eV lamp, 6 months for 9.8 eV lamp and 1 year for 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[1] |
| Radio Module | Supports BLE, RM900 or Bluetooth |

[1] Contact RAE Systems for country-specific wireless approvals and certificates. Specifications are subject to change.

## Sensor Specifications

| Gas Monitor | Range | Resolution | Response Time T90 |
|---|---|---|---|
| VOCs | 0 to 99.99 ppm<br>100 to 999.9 ppm<br>1000 to 9999 ppm | 0.010 ppm<br>0.1 ppm<br>1 ppm | < 3 s<br>< 3 s<br>< 3 s |
| Benzene | 0 to 200 ppm | 0.010 ppm | < 60 sec |
| Butadiene | 0 to 200 ppm | 0.010 ppm | < 60 sec |

### MONITOR ONLY INCLUDES:

- UltraRAE 3000+ Monitor, Model PGM-7360
- Wireless communication module built-in
- 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/DCcharger and international plug kit
- 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 ADDS:

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

### OPTIONAL GUARANTEED COST-OF-OWNERSHIP PROGRAM:

- 4-year repair and replacement warranty
- Annual maintenance service


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Datasheet_UltraRAE 3000_+_DS-1018-_EN
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