

# UltraRAE 3000

Portable Compound-Specific VOC Monitor



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.

## SENSOR SPECIFICATIONS

Gas Monitor	Range	Resolution	Response Time T90
VOCs	0 to 99.99 ppm	0.05 ppm	< 3 sec
	100 to 999.9 ppm	0.01 ppm	< 3 sec
	1,000 to 9,999 ppm	1 ppm	< 3 sec
Benzene	0 to 200 ppm	0.05 ppm	< 60 sec
Butadiene	0 to 200 ppm	0.05 ppm	< 60 sec

## 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

## KEY FEATURES

- Proven PID technology
- 3-second response time
- Extended range to 10,000 ppm
- Humidity sensor
- Automatic temperature-controlled sampling time calculation
- Highly specific readings
- New sampling probe design
- Versatile VOC or Benzene-Specific modes
- Built-in Bluetooth
- Integrated RAE Systems Correction Factors list for more than 200 compounds
- Multi-language support

## APPLICATIONS:

Confined space entry pre-screening during refinery and plant maintenance

Hazardous material response

Marine spill response

Refinery down-stream monitoring

Plant overhaul

## UltraRAE 3000

**SPECIFICATIONS** Specifications subject to change without notice

<b>Size</b>	10" L x 3.0" W x 2.5" H (25.5 cm x 7.6 cm x 6.4 cm)	<b>Datalogging</b>	Standard 6 months at one-minute intervals
<b>Weight</b>	26 oz (738 g)	<b>Calibration</b>	2-point or 3-point calibration for zero and span. Calibration memory for 8 calibration gases, alarm limits, span values and calibration dates
<b>Sensors</b>	Photoionization sensor with standard 9.8 eV or optional 10.6 eV or 11.7 eV lamps	<b>Sampling Pump</b>	- Internal, integrated flow rate at 400 cc/mn - Sample from 100' (30m) horizontally and vertically
<b>Battery</b>	- Rechargeable, external field-replaceable Lithium-Ion battery pack - Alkaline battery adapter	<b>Low Flow Alarm</b>	- Auto pump shutoff at low-flow condition
<b>Operating Hours</b>	16 hours of operation	<b>Communication</b>	- Download data and upload instrument setup from PC through charging cradle - Wireless data transmission through built-in Bluetooth™
<b>Display Graphic</b>	4 lines, 28 x 43mm	<b>Frequency for RAE Link 3 Optional Modem</b>	902 to 928 MHz (license-free), 2.400 to 2.4835 GHz (license-free), 433 MHz, 869 MHz
<b>Keypad</b>	1 operation and 2 programming keys, 1 flashlight on/off button	<b>Wireless Network</b>	ProRAE Guardian Real-Time Wireless Safety
<b>Direct Readout</b>	- VOCs as ppm by volume - High and low values - STEL and TWA - Battery and shutdown voltage - Date, time, temperature	<b>Wireless Emergency</b>	ISM license-free bands
<b>Alarms</b>	- 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 sta	<b>Wireless Range (Typical)</b>	UltraRAE 3000 to RAElink3 or RAElink3 Z1 modems ~ 33 feet (10 meters)
<b>EMI/RFI</b>	Highly resistant to EMI/RFI. Compliant with EMC directive (2004/108/EC); R & TTE directive (1999/5/EC)	<b>Hazardous Area Approval</b>	- US and Canada: R , Classified as Intrinsically Safe for use in Class I, Division 1 Groups A, B, C, D. - Europe: ATEX II 2G EEx ia IIC T4 - IECEx CSA 10.0005 Ex ia IIC/IIB GbT4
<b>IP Rating</b>	IP65 unit running	<b>Temperature</b>	-4° to 122° F (-20° to 50° C)
		<b>Humidity</b>	0% to 95% relative humidity (non-condensing)
		<b>Attachments</b>	Durable bright red rubber boot
		<b>Warranty</b>	3 years for 10.6 eV lamp 1 year for pump, battery and instrument



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