

Photoionization Detector (PID)

RAE UltraRAE 3000

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.

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**
- **Integrated RAE Systems Correction Factors list for more than 200 compounds**

Easy to Use

- Large graphic display
- Multi-language support
- Easy access to lamp and sensor 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



CALL GEOTECH TODAY (800) 833-7958

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Photoionization Detector (PID)

RAE UltraRAE 3000

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
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 limits, 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
Hazardous Area Approval	• US and Canada: C CSA US, 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
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

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	0.1 ppm	<3 sec
	1000 to 9999 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

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

Specifications are subject to change.

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