The UltraRAE 3000+ is the most advanced Compound-Specific Monitor 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.

FEATURES

- 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
- 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

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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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/RFI	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. Reflex PID Technology™ Calibration memory for 8 calibration gases, alarm limits, span values and calibration dates
Accuracy	3% at calibration point
Sampling Pump	• Internal, integrated flow rate at 400 cc/min. • Sample from 100' (30 m) 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 using BLE module and dedicated APP • Wireless data transmission through built-in RF modem
Wireless Network	Mesh RAE Systems Dedicated Wireless Network
Wireless Range (Typical)	Up to 15 ft. (5 m) for BLE 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: 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
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[1]
Radio Module	Supports BLE, RM900 or Bluetooth

1 Contact Geotech for country-specific wireless approvals and certificates.

Sensor Specifications

Gas Monitor	Range	Resolution	Response Time (T90)
VOCs	0 to 99.99 ppm 100 to 999.9 ppm 1000 to 9999 ppm	0.010 ppm 0.1 ppm 1 ppm	< 3 sec < 3 sec < 3 sec
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/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.

CALL GEOTECH TODAY
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