

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 | 0.1 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 |

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 with built-in Bluetooth and optional RAELink3 portable modem
- 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

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

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Analyser 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) |
| Sensor: | 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: | 4 lines, 28 x 43mm |
| Direct Readout: | - VOCs as ppm by volume - High and low values - STEL and TWA - Battery and shutdown voltage - Date, time, temperature |
| Keypad: | 1 operation and 2 programming keys, 1 flashlight on/off button |
| 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 |
| EMI/RFI: | Highly resistant to EMI/RFI. Compliant with EMC directive (2004/108/EC); R & TTE directive (1999/5/EC) |
| 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 |
| Communication: | - Download data and upload instrument setup from PC through charging cradle - Wireless data transmission through built-in Bluetooth™ |
| Frequency for RAE Link 3 Optional Modem: | 902 to 928 MHz (license-free), 2.400 to 2.4835 GHz (license-free), 433 MHz, 869 MHz |
| Wireless Network: | ProRAE Guardian Real-Time Wireless Safety |
| Wireless Frequency: | ISM license-free bands |
| Wireless Range (Typical): | UltraRAE 3000 to RAELink3 or RAELink3 Z1 modems ~ 33 feet (10 meters) |
| Hazardous Area Approval: | - 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 |
| 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 |

Part Number: 72-8020-U

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