



UltraRAE 3000

Portable Handheld 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.

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 built-in – Bluetooth (and optional RAELink3 portable modem) or Mesh Network support
- Integrated RAE Systems Correction Factors list for more than 200 compounds

Easy to Use

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

- **Dual detection mode for total benzene exposure assessment: 60-second snapshot or 15-minute STEL measurement**
- **High sensitivity to benzene (as low as 50 ppb) 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 0.05 to 10,000 ppm**



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



IECEx

ATEX

UltraRAE3000

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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	<ul style="list-style-type: none">Rechargeable, external field-replaceable lithium-ion battery packAlkaline 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	<ul style="list-style-type: none">VOCs as ppm by volumeHigh and low valuesSTEL and TWABattery and shutdown voltageDate, time, temperature
Alarms	<ul style="list-style-type: none">95dB buzzer (at 12"/30 cm) and flashing red LED to indicate exceeded preset limitsHigh: 3 beeps and flashes per secondLow: 2 beeps and flashes per secondSTEL and TWA: 1 beep and flash per secondAlarms latching with manual override or automatic resetAdditional 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. Calibration memory for 8 calibration gases, alarm limits, span values and calibration dates
Sampling Pump	<ul style="list-style-type: none">Internal, integrated flow rate at 400 cc/minSample from 100' (30m) horizontally and vertically
Low Flow Alarm	Auto shut-off pump at low-flow condition
Communication & Data Download	<ul style="list-style-type: none">Download data and upload instrument set-up from PC through charging cradle or optional Bluetooth™Wireless data transmission through built-in RF modem
Wireless Network	Mesh RAE Systems Dedicated Wireless Network
Wireless Range (Typical)	EchoView Host: LOS > 660 ft (200 m) ProRAE Guardian & RAEMesh Reader: LOS > 660 ft (200 m) ProRAE Guardian & RALink3 Mesh: LOS > 330 ft (100 m)
Safety Certifications	<ul style="list-style-type: none">US and Canada: Classified as Intrinsically Safe for use in Class I, Division 1 Groups A, B, C, D.Europe: ATEX II 2G EEx ia IIC T4IECEx 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
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 Bluetooth or RM900

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

CORPORATE HEADQUARTERS

RAE Systems by Honeywell

3775 North First Street
San Jose, CA 95134 USA
RAE-InsideSales@honeywell.com

DS-1041-05 02/16

WORLDWIDE SALES OFFICES

USA/Canada 1.877.723.2878
Europe +800.333.222.44/+41.44.943.4380
Middle East +971.4.450.5852
China +86.10.5885.8788-3000
Asia Pacific +852.2669.0828

Sensor Specifications

Gas Monitor	Range	Resolution	Response Time (T90)
VOCs	0 to 99.99 ppm	0.025 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	0.025 ppm	< 60 sec
Butadiene	0 to 200 ppm	0.025 ppm	< 60 sec

ULTRARAE 3000 ORDERING 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

Ordering Information

Monitor with Accessories and Calibration Kit (PN 059-D311-200)



DUOTEC AS
MÅLEINSTRUMENTER TIL MILJØKONTROL
DUOTEC A/S
Herstedøstervej 19 · 2600 Glostrup
Tlf. 4345 9188 · Fax 4343 2330
e-mail: info@duotec.dk
www.duotec.dk

www.raesystems.com