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MiniRAE 3000

Portable Handheld VOC Monitor





The MiniRAE 3000 is a comprehensive handheld VOC (Volatile Organic Compound) monitor that uses a third-generation patented PID technology to accurately measure more ionizable chemicals than any other device on the market. It provides full-range measurement from 0 to 15,000 ppm of VOCs.

The MiniRAE 3000 has a built-in wireless modem that allows real-time data connectivity with the ProRAE Guardian command center located up to 2 miles (3 km) away through a Bluetooth connection to a RAELink 3* portable modem or optionally via Mesh Network.

KEY FEATURES

- Third-generation patented PID technology
- VOC detection range from 0 to 15,000 ppm
- 3-second response time
- Humidity compensation with built-in humidity and temperature sensors
- Six-month datalogging
- Real-time wireless built-in Bluetooth (and optional RAELink3 portable modem) or Mesh Network support
- · Large graphic display with integrated flashlight
- Multi-language support with 10 languages encoded
- IP- 67 waterproof design

APPLICATIONS

- Oil and Gas
- HazMat
- Industrial Safety
- Civil Defense
- Environmental and Indoor Air Quality

- Highly accurate VOC maeasurements
- Patented PID sensor
- Low maintenance—easy access to lamp and sensor
- Low cost of ownership
- 3-year 10.6eV lamp warranty



Workers can quickly measure VOCs and wirelessly transmit data via Bluetooth or optional Mesh radio.











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SPECIFICATIONS

Instrument Specifications

Size	10" L x 3.0" W x 2.5" H (25.5 cm x 7.6 cm x 6.4 cm)			
Weight	26 oz (738 g)			
Sensors	Photoionization sensor with standard 10.6 eV or optional 9.8 eV or 11.7 eV lamp			
Battery	Rechargeable, external field-replaceable Lithium-lon battery pack Alkaline battery adapter			
Running time	16 hours of operation (12 hours with alkaline battery adapter)			
Display Graphic	4 lines, 28 x 43 mm, with LED backlight for enhanced display readability			
Keypad	1 operation and 2 programming keys, 1 flashlight on/off			
Direct Readout	Instantaneous reading • VOCs as ppm by volume (mg/m³) • High values • STEL and TWA • Battery and shutdown voltage • Date, time, temperature			
Alarms	95dB at 12" (30 cm) buzzer 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-67 unit off and without flexible probe • IP-65 unit running			
Datalogging	Standard 6 months at one-minute intervals			
Calibration	Two-point or three-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 500 cc/mn Sample from 100' (30m) horizontally or vertically			
Low Flow Alarm	Auto pump shutoff at low-flow condition			
Communication & Data Download	 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 & RAELink3 Mesh: LOS > 330 ft (100 m)			
Safety Certifications	US and Canada: CSA, Classified as Intrinsically Safe for use in Class I, Division 1 Groups A, B, C, D Europe: ATEX II 2G EEx ia IIC T4			
Temperature	-4° to 122° F (-20° to 50° C)			

¹ Contact RAE Systems for country-specific wireless approvals and certificates.

Specifications are subject to change.

Attachments	hments Durable bright yellow rubber boot	
Warranty	3 years for 10.6 eV lamp, 1 year for 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	

Sensor Specifications

Gas Monitor	Range	Resolution	Response Time T90
VOCs	0 to 999.9 ppm 1,000 to 15,000 ppm	0.1 ppm 1 ppm	<3s

MONITOR ONLY INCLUDES:

- MiniRAE 3000 Monitor, Model PGM-7320
- Wireless communication module built in, as specified
- Datalogging with ProRAE Studio II Package
- Charging/download adapter
- RAE UV lamp, as specified
- Flex-I-Probe[™]
- External filter
- Rubber boot
- Alkaline battery adapter
- · Lamp-cleaning kit
- Tool kit
- Operation CD-ROM
- Operation and Maintenance manual
- Soft leather case

OPTIONAL CALIBRATION KIT ADDS:

- 100 ppm isobutylene calibration gas, 34L
- Calibration regulator and flow controller

OPTIONAL GUARANTEED COST-OF-OWNERSHIP PROGRAM:

- 4-year repair and replacement guarantee
- Annual maintenance service

CORPORATE HEADQUARTERS

RAE Systems by Honeywell

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

DS-1018-05 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

Authorized Distributor the only one in Thailand for Spare Parts, After Sales, and ISO 17025 Calibration Laboratory Standard

Orange Innovation Company Limited

92/88 Serithai29 Klongkum Buengkum Bangkok 10240

Tel (66)7338066 Email sales@orangeth.com

www.orangeth.com