

# **Portable Handheld VOC Monitor**

The MiniRAE 3000 is the most advanced handheld volatile organic compound (VOC) monitor on the market. Its photoionization detector's (PID) extended range of **0 to 15,000 ppm** makes it an ideal instrument for applications from industrial hygiene to leak detection and HazMat.

#### The RF modem allows real-time data

transmissions with a base controller located up to 500 feet away from the MiniRAE 3000 (or two miles with optional RAELink3 portable modem). A personal computer can be used as the base station for a MiniRAE 3000 system. The standard ProRAE Remote software is capable of monitoring the input of up to 64 remotely located monitors, including MiniRAE 3000, AreaRAE, etc.



AutoRAE Compatible

**Key Features** 

without tools

Proven PID technology

following unique features:

- 3-second response time

with improved linearity

The patented sensor provides the

- Extended range up to 15,000 ppm

- Humidity compensation with integral

humidity and temperature sensors

Real-time wireless data transmission

with built-in RF modem or Bluetooth

 Designed for simple service Easy access to lamp and sensor in seconds

Big graphic display for easy overview

#### Additional Advantages

- View real-time sensor data and alarm status at headquarters or command center
- Automatic lamp type recognition
- Duty-cycling<sup>™</sup> lamp and sensor autocleaning technology
- Tough, flexible inlet Flexi-Probe<sup>™</sup>
- 3 large keys operable with 3 layers of gloves
- Strong, built-in sample pump draws up to 100 feet (30m) horizontally or vertically
- · Loud, 95dB audible alarm
- · Bright red flashing visual alarm
- Interchangeable drop-In lithium-ion and alkaline battery packs
- Charging cradle doubles as an external battery charger
- Compatible with AutoRAE<sup>™</sup> calibration station
- ProRAE Remote software simultaneously controls and displays readings for up to 64 remote detectors
- License-free, ISM band RF transmission with communication range up to 500 feet (2 miles with optional RAELink3 modem)
- Optional RAELink3 modem provides GPS capability to track and display readings from remote detectors and provide up to 2 miles' long-distance transmission
- Datalogging with up to 6 months of data at one-minute intervals
- 3-year 10.6eV lamp warranty

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www.raesystems.com

MiniRAE 300







# MiniRAE 3000

## Specifications\*

#### **Detector 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 lamps		
Battery	<ul> <li>Rechargeable, external field-replaceable Lithium-Ion battery pack</li> </ul>		
	Alkaline battery adapter		
Operating Hours	16 hours of operation (12 hours with alkaline battery)		
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 • High values • STEL and TWA • Battery and shutdown voltage • Date, time, temperature		
Alarms	<ul> <li>95 dB (at 30 cm) buzzer and flashing red LED to indicate exceeded preset limits</li> <li>High: 3 beeps and flashes per second</li> <li>Low: 2 beeps and flashes per second</li> <li>STEL and TWA: 1 beep and flash per second</li> <li>Alarms latching with manual override or automatic reset</li> <li>Additional diagnostic alarm and display message for low battery and pump stall</li> </ul>		
EMI/RFI	Highly resistant to EMI/RFI Compliant with EMC Directive 89/336/EEC		
IP Rating	<ul> <li>IP67 unit off and without flexible probe</li> <li>IP65 unit running</li> </ul>		
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 400 cc/mn     Sample from 100' (30m) horizontally and vertically		
Low Flow Alarm	Auto pump shutoff at low-flow condition		
Communication	<ul> <li>Download data and upload instrument set-up from PC through charging cradle or optional Bluetooth<sup>™</sup></li> <li>Wireless data transmission through built-in RF modem</li> </ul>		
Frequency	002 to 928 MHz (license-free), 2.400 to 2.4835 GHz license-free), 433 MHz, 869 MHz		
RF Range	Up to 500' (900 MHz, 433 Mhz, 869 Mhz), extendable with RAELink3 Repeater to 2 miles		
Hazard Area Approval	<ul> <li>US and Canada: UL, cUL, Classified as Intrinsically Safe for use in Class I, Division I Groups A, B, C, D</li> <li>Europe: ATEX II 1G EEx ia IIC T4 (pending)</li> </ul>		
	• IECEX: II 1G EEx ia IIC T4 (pending)		
Temperature	-4° to 113° F (-20° to 50° C)		
Humidity	0% to 95% relative humidity (non-condensing)		
Attachments	Durable bright yellow rubber boot with belt clip		
Warranty	Lifetime on non-consumable components (per RAE Systems Standard Warranty), 3-year warranty for 10.6 eV lamp, 1 year for pump and battery		

\*Specifications are subject to change

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#### **Sensor Specifications**

Gas Monitor	Range	Resolution	Response Time T90
VOCs	0 to 999.9 ppm	0.1 ppm	< 3 s
	1000 to 15,000 ppm	1 ppm	< 3 s

#### Monitor only includes:

- MiniRAE 3000 Monitor, Model PGM-7320
- · Wireless communication module built in, as specified
- Datalogging with ProRAE Studio Package for Windows<sup>™</sup> 95, 98, 2000, NT, ME & XP
- · Charging/download adapter
- · RAE UV lamp, as specified
- Flex-I-Probe<sup>™</sup>
- External filter
- · Rubber boot with belt clip and straps
- 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 case

#### Monitor with accessories kit adds:

- · 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 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

### DISTRIBUTED BY:

