MINIRAE 3000

Portable Handheld VOC Monitor

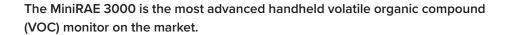**The MiniRAE 3000 is the most advanced handheld volatile organic compound (VOC) monitor on the market.**

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 realtime 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.

ADDITIONAL ADVANTAGES

View real-time sensor data and alarm status at headquarters or command center

Automatic lamp type recognition

Duty-cycling™ lamp and sensor auto-cleaning technology

Tough, flexible inlet Flexi-Probe™

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™ 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
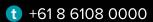
3-year 10.6 eV lamp warranty

KEY FEATURES

- **Proven PID technology**
- **3-second response time**
- **Extended range to 15,000 ppm**
- **Humidity compensation**
- **Built-in RF modem or Bluetooth**
- **Designed for simple service**
- **Big graphic display**
- **Field-interchangeable battery**
- **Integrated flashlight**
- **User-friendly screens**
- **Integrated RAE Systems Correction Factors**
- **Multi-language support**
- **Rugged housing**
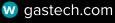- **IP67 waterproof design**
- **Strong protective removable rubber boot**

MINIRAE 3000

SPECIFICATIONS   Specifications subject to change without notice

Size	10" L x 3.0" W x 2.5" H (25.5 cm x 7.6 cm x 6.4 cm)	**IP Rating**	- IP67 unit off and without flexible probe - IP65 unit running
Weight	26 oz (738 g)	**Datalogging**	Standard 6 months at one-minute intervals
Sensors	Photoionization sensor with standard 10.6 eV or optional 9.8 eV or 11.7 eV lamps	**Calibration**	Two-point or three-point calibration for zero and span. Calibration memory for 8 calibration gases, alarm limits, span values and calibration dates
Battery	- Rechargeable, external field-replaceable Lithium-Ion battery pack - Alkaline battery adapter		
		Sampling Pump	- Internal, integrated flow rate at 500 cc/mn - Sample from 100' (30m) horizontally and vertically
Operating Hours	16 hours of operation (12 hours with alkaline battery)	**Low Flow Alarm**	- Auto pump shutoff at low-flow condition
Display Graphic	4 lines, 28 x 43 mm, with LED backlight for enhanced display readability	**Communication**	- Download data and upload instrument set-up from PC through charging cradle or optional Bluetooth™ - Wireless data transmission through built-in RF modem
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	**Frequency**	902 to 928 MHz (license-free), 2.400 to 2.4835 GHz (license-free), 433 MHz, 869 MHz
		RF Range	Up to 500' (152m; 900 MHz, 433 Mhz, 869 Mhz), extendable with RAELink3 Repeater to 2 miles (3.2km)
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	**Hazard Area**	- US and Canada: , Classified as Intrinsically Safe Approval 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)
		Humidity	0% to 95% relative humidity (non-condensing)
		Attachments	Durable bright yellow rubber boot
EMI/RFI	Highly resistant to EMI/RFI. Compliant with EMC directive (2004/108/EC); R & TTE directive (1999/5/EC)	**Warranty**	3 years for 10.6 eV lamp 1 year for pump, battery, sensor and instrument

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