

MiniRAE 3000

Portable Handheld VOC Monitor.

Introduction

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.

Key Features

- Proven PID technology featuring three-second response time, 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 without tools.
- Field-interchangeable battery pack. Replaced in seconds without tools.
- Multi-language support with 12 languages encoded.
- Rugged housing withstands use in harsh environments.

Key Benefits

- View real-time sensor data and alarm status at headquarters or command center.
- Three large keys operable with three layers of gloves.
- Loud, 95 dB audible alarm with bright red flashing visual alarm.



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Detector Specifications	
Size	10Lx3.0Wx2.5"H (25.5x7.6x6.4 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	Rechargeable, external field-replaceable Lithium-Ion battery pack / Alkaline battery adapter
Operating Hours	16 hours of operation (12 hours with alkaline battery)
Display Graphic	4 lines, 28x43 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 and 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
EMI/RFI	Highly resistant to EMI/RFI, Compliant with EMC directive (2004/108/EC); R & TTE directive (1999/5/EC)
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' (30 m) horizontally and vertically
Low Flow Alarm	Auto pump shutoff at low-flow condition
Communication	Download data and upload instrument set-up from PC through charging cradle or optional Bluetooth™. Wireless data transmission through built-in RF modem
Frequency	902 to 928 MHz (license-free), 2.400 to 2.4835 GHz (license-free), 433 MHz, 869 MHz
RF Range	Up to 500' (152 m; 900 MHz, 433 MHz, 869 MHz), extendable to RAELink3 Repeater to 2 miles (3.2 km)
Hazard Approval	US and Canada: Classified as Intrinsically Safe for use in Class I, Division 1 Groups A, B, C, D
Temperature	-4 to 122°F (-20 to 50°C)
Humidity	0% to 95% relative humidity (non-condensing)
Attachments	Durable bright yellow rubber boot
Warranty	3 years for 10.6 eV lamp, 1 year for pump, battery, sensor and instrument

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