

ppbRAE 3000

Portable Handheld VOC Monitor

The ppbRAE 3000 is the most advanced handheld volatile organic compound (VOC) monitor on the market. Its photoionization detector's (PID) extended range of 1 ppb to 10,000 ppm makes it an ideal instrument for applications from HazMat/Homeland Security and industrial hygiene to Indoor Air Quality and military applications.

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



Key Features

- Proven PID technology. The patented sensor provides the following unique features:
- 3-second response time
- Extended range from 1 ppb to 10,000 ppm with improved linearity
- 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
- Big graphic display for easy overview of gas type, Correction Factor and concentration
- Field-interchangeable battery pack replaced in seconds without tools
- · Integrated flashlight for better view in dark conditions
- · User-friendly screens including dataplot chart view
- Integrated RAE Systems Correction Factors list for more than 200 compounds to measure more chemicals than any other PID
- Multi-language support with 12 languages encoded
- · Rugged housing withstands use in harsh environments
- IP67 waterproof design for easy cleaning and decontamination in water
- Strong, protective removable rubber boot

Additional Advantages

- · View real-time sensor data and alarm status at headquarters or command center
- · Automatic lamp type recognition
- Duty-cycling[™] lamp and sensor autocleaning 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 95 dB 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
- 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 provides up to 2 miles long distance transmission
- · Data logging with up to 6 months of data at one-minute intervals
- 3-year 10.6 eV lamp Warranty











ppbRAE 3000

Specifications*

Detector Specifications

Detector Spec			
	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	Rechargeable, external field-replaceable Lithium-lon battery pack Alkeline bettery educators		
Operating Hours	Alkaline battery adapter 16 hours of operation (12 hours with alkaline battery)		
Operating Hours Display Graphic	4 lines, 28 x 43 mm, with LED backlight for enhanced		
Display Graphic	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	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	IP67 unit off and without flexible probe IP65 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 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 M Hz (license -free), 2.400 to 2.4835 GHz (license-free), 433 MHz , 869 MHz		
RF Range	Up to 500' (1 52m; 900 M Hz, 433 Mhz, 869 Mhz), extendable with RAELin k3 Repeater to 2 miles (3.2km)		
Hazard Area Approval	US and Canada: c Us, 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)		
Temperature Humidity	-4° to 122° F (-20° to 50° C) 0% to 95% relative humidity (non-condensing)		
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^{*}Specifications are subject to change

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Gas Monitor	Range	Resolution	Response Time T90
VOCs	0 to 9999 ppb	1 ppb	< 3 s
	10 to 99 ppm	0.01 ppm	< 3 s
	100 to 999.9 ppm	0.1 ppm	< 3 s
	1000 to 9999 ppm	1 ppm	< 3 s

Monitor only includes:

- ppbRAE 3000 Monitor, Model PGM-7340
- · Wireless communication module built in, as specified
- Datalogging with ProRAE Studio Package for Windows[™] 98, 2000, NT, ME & XP
- · Charging/download adapter
- · RAE UV lamp, as specified
- VOC Zeroing Tubes (1 box)
- · Tube adapter
- Tedlar® bag for calibration
- Flex-I-Probe[™]
- External filter
- · Rubber boot with straps
- · Alkaline battery adapter
- · Lamp-cleaning kit
- Tool 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:

- 10 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:

