



The rugged ppbRAE Plus is the most sensitive handheld volatile organic compound (VOC) monitor in the world. Its Photoionization Detector (PID) provides true parts-per-billion (ppb) detection for applications from indoor air quality (IAQ) to HazMat/Homeland Security.

The ppbRAE Plus detector can be made wireless with the use of RAELink. This allows real-time monitoring information from the detector to be integrated into an existing AreaRAE system. A wireless, RF (radio frequency) modem allows detectors equipped with Firmware version 1.20 or higher to communicate and transmit readings and other information on a real-time basis with an AreaRAE base controller located up to 2 miles away.

### **Key Features**

- \*New extended range from 1 ppb to 2,000 ppm
- \* Proven PID technology: The patented dual channel 3D sensor provides a 3-second response time and sets a new standard for resistance to moisture and dirt, while the superbright 10.6eV lamp provides extra sensitivity for low ppb measurements.
- \* Exclusive zeroing tube assures repeatability at low level measurements with a disposable VOC zeroing tube.
- \* Self-cleaning lamp and sensor: Our patented self-cleaning lamp and sensor minimize the need for maintenance and calibration.
- \* The ppbRAE Plus lamp and sensor can be taken apart in seconds for easy maintenance without any tools!
- \* Measure more chemicals than with any other PID: With over 100 Correction Factors built into the ppbRAE Plus's memory and the largest printed list of Correction Factors in the world (300+), RAE Systems offers the ability to accurately measure more ionizable chemicals than any other PID. When a gas is selected from the ppbRAE Plus's library, its alarm points are automatically loaded into the meter.
- \* User friendly screens make it easy to use for simple applications and flexible enough for sophisticated operations.
- \* Drop-in battery: When work schedules require putting in more hours than the 10 hours supplied by the standard NiMH battery, the drop-in alkaline

pack supplied with every ppbRAE Plus lets you finish the job.

- \* Stores up to 267 hours of data at one minute intervals for downloading to PC (with the datalogging option).

## **Applications**

### *HazMat/Homeland Security*

- \* Searching for Toxic Industrial Chemicals (TICs) and Chemical Warfare Agents (CWAs)
- \* 3-second response enables quick assessment of patients in decontamination lines

### *Indoor Air Quality (IAQ) Surveys*

- \* Outgassing of new building materials (carpet and fabrics)
- \* Searching for mold and mildew by measuring microbial VOCs (mVOCs)

### *Industrial Hygiene/Safety*

- \* Worker exposure studies for very toxic chemicals

### *Environmental*

- \* Perimeter fence line monitoring
- \* Low-level leak detection