



RAE

## ppbRAE Handheld ppb VOC Monitor

Prod # 1541

### Features:

- Patented planar, dual channel PID detector
- Measure concentrations from 1 ppb to 200 ppm
- Use for instantaneous readings or datalogging
- Large keys operable with 3 layers of gloves
- Field-replaceable battery
- 102 built-in correction factors from a RAE list of 250+ chemicals
- Strong built-in sample draw pump

### Accessories:

#### • Standard:

- Battery charger
- Alkaline battery holder
- Wrist strap

#### • Optional:

- Automotive charger/adaptor

### Specifications:

Detector : PID sensor with 10.6 eV, UV lamp  
 Accuracy : ± 20 ppb or 10% of reading (Isobutylene with 10.6 eV lamp)  
 Readout : Instantaneous, average, STEL & peak value, battery voltage, elapsed time  
 Display : Large LCD, manual, darkness & alarm activated

Range	Resolution	Response Time (t90) Isobutylene (cal gas)
0 – 999 ppb	1 ppb	< 5 sec
0.01 – 9.99 ppm	0.01 ppm	< 5 sec
0.1 – 199.9 ppm	0.1 ppm	< 5 sec

Power : Nickel metal hydride battery, external – 10 hours continuous power  
 Alarms : 90 dB buzzer & flashing LED  
 Data Logging : 15,000 points with time/date  
 Communication : Download data & upload instrument setup from PC via RS-232 to serial port  
 Operating Conditions : Temperature: -10°C to +40°C  
 : Relative Humidity: 0-95% (non-condensing)  
 Dimensions : 21.8 cm x 7.6 cm x 5.1 cm  
 : (8.2" x 3" x 2")  
 Weight : 553 g (19.5 oz.) with battery pack

The **ppbRAE** is a highly sensitive handheld VOC monitor that offers true parts per billion (ppb) detection capability. This instrument can be used for routine and specialty applications involving the detection of extremely low level, low vapour pressure, and highly toxic volatile organic compounds (VOCs). Measure total VOC concentrations or use built-in correction factors to measure specific VOCs.

### Typical Applications

- Spill response
- Environmental surveys: leak detection, residue studies, drug detection
- Indoor air quality assessments
- Personnel monitoring
- Detection of low volatility compounds
- Chemical clean rooms
- Chemical warfare agents

