

Photo Ionization Detector PID

ppbRAE Plus

The ppbRAE Plus is the most sensitive handheld Volatile Organic Compound (VOC) monitor in the world. It's Photo Ionization Detector (PID) provides true parts-per-billion (ppb) detection for applications from Indoor Air Quality (IAQ) to HazMat/Homeland Security.

FEATURES

- **New Extended range from 1 ppb to 4,000 ppm**
- **Proven, patented 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
- **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
- **The ppbRAE lamp and sensor can be taken apart in seconds for easy maintenance without any tools!**
- **Strong, built in sample pump** - Draws up to 100 feet (30 m) horizontally or vertically
- **Stores up to 267 hours of data** - At one minute intervals for downloading to PC (with the datalogging option)



SPECIFICATIONS

Gas Monitor	Range	Resolution	Response Time (T90)
VOCs	0.999 ppb	1 ppb	<3 seconds
	0.01 - 9.99 ppm	0.01 ppm	<3 seconds
	0.1 - 4000 ppm	0.1 ppm	<3 seconds

Size	8.2" L x 3.0" W x 2.0" H (21.8 x 7.62 x 5.0 cm)	Datalogging	(Optional) 267 hours (at one minute intervals) with date/time. Header information includes monitor serial number, user ID, site ID, date and time
Weight	19.5 oz (553 g) with battery pack, without rubber boot	Sampling Pump	<ul style="list-style-type: none"> • Internal, integrated flow rate 400 cc/min • Sample from 100' (30m) horizontally or vertically
Sensor	Patented, planar, dual channel, photoionization sensor with super bright 10.6eV lamp	Communication	Download data and upload instrument set-up from PC through RS-232 link to serial port
Battery	<ul style="list-style-type: none"> • Rechargeable, external, field replaceable, Nickel-Metal Hydride (niMH) battery pack • Alkaline battery holder (for 4 AA batteries) • 10 hours continuous operation 	Hazardous Area Approval	<ul style="list-style-type: none"> • US and Canada: UL and cUL, Classified for use in Class I, Division 1, Groups A, B, C, and D hazardous locations • Europe: ATEX II IG EEx ia IIC T4
Display	Large LCD, backlight activated manually, with alarms or darkness	Temperature	14° to 104°F (-10° to 40°C)
Keypads	1 operation and 2 programming keys	Humidity	0% to 95% relative humidity (non-condensing)
Direct Readout	<ul style="list-style-type: none"> • VOCs as ppb or ppm by volume • High and Low values • STEL and TWA (in hygiene mode) • Battery and shut down voltage 	EM/RFI	Highly resistant to EMI/RFT. Compliant with EMC Directive 89/336/EEC
Low Flow Alarm	Auto shut-off pump at low flow condition	IP-Rating	IP-55: protected against dust, protected against low pressure jets of water from all directions
Alarms	90 dB buzzer and flashing red LED to indicate exceeded preset limits <ul style="list-style-type: none"> • High: 3 beeps and flashes per second • Low: 2 beeps and flashes per second • STEL and TWA: 1 beep and flash per second • Alarms automatic reset or latching with manual override • Optional plug-in pen size vibration alarm • User adjustable alarm limits 	Calibration	Two point field calibration of zero and standard reference gas. Calibration memory of 8 calibration gases, alarm limits, span values and calibration date
		Warranty	Lifetime on non-consumable components (per RAE Systems Standard warranty), 1 year for 10.6.V lamp, 1 year for pump and battery

Geotech Environmental Equipment, Inc.
 2650 East 40th Avenue • Denver, Colorado 80205
 (303) 320-4764 • (800) 833-7958 • FAX (303) 322-7242
 email: sales@geotechenv.com website: www.geotechenv.com