



ToxiRAE Plus PID

PID Personal Gas Monitor

Lightweight, personal and compact VOC gas monitor with rechargeable battery

The **ToxiRAE Plus PID** is the world's first and only pocket-sized datalogging photoionization detector (PID). Its small size brings the "broad-band" capabilities of the PID/VOC detector to a personal level for 10 hours of continuous and instantaneous monitoring of volatile organic compounds (VOCs). The **ToxiRAE Plus PID** is a very convenient tool that can alarm when it is necessary for an individual to take action when VOC thresholds have been passed in HazMat, environmental clean-up or industrial applications.

Key Features

- **Small and light** enough to wear in a pocket for a full working shift of protection
- **The ToxiRAE Plus PID lamp and sensor come apart in seconds for easy maintenance without tools!**

- **User-friendly** screens make it easy to use for simple applications and flexible enough for sophisticated options.
- **Measure more chemicals than with any other PID.** With over 38 standard Correction Factors available and the largest printed list of Correction Factors in the world (300+), **ToxiRAE Plus PID** offers the ability to accurately measure more ionizable chemicals than any other PID!
- The standard **rugged rubber boot** helps assure that the **ToxiRAE Plus PID** survives the bumps and knocks of tough field use.
- **Large keys** operable with 3 layers of gloves
- **Easy-to-read display** with backlight
- **Store up to 67 hours of data** at one-minute intervals for download to PC with the optional datalogging
- **Varying audio alarm signals** for different alarm conditions including STEL, TWA and Peak

Applications

- **Environmental**
 - Worker personal protective equipment (PPE) decisions
 - Landfill operations
- **HazMat/Homeland Security**
 - Initial PPE (personal protective equipment) assessment
 - Perimeter establishment and maintenance
- **Industrial Hygiene, plant Health & Safety**
 - Confined Space Entry
 - Indoor Air Quality (IAQ)
 - Worker exposure studies/ Permissible Exposure Limit (PEL) compliance
- **Refineries and petrochemical plants, including offshore drilling and plant shutdowns**
- **Shipyards and maritime**
- **Pulp and paper industry**
- **Paint and coating operations**



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Specifications*

Sensor Specifications

Gas Monitor	Range	Resolution	Response Time
VOC	0 - 99.9 ppm	0.1 ppm	5 sec
	100 - 2000 ppm	1 ppm	5 sec

Detector Specifications

Size	6.0"L x 1.75"W x 1.0"H (15.2 x 4.4 x 2.5 cm)
Weight	6.4 oz with battery (180g)
Sensor	Photoionization detector with 10.6 eV lamp standard, 9.8 eV and 11.7 eV optional
Battery	<ul style="list-style-type: none">Rechargeable, 2.4 V, 1100 mAh, Ni-Cd battery pack or 2AA alkaline battery adapter for VOC monitorBattery charger: 10 hours through charging station
Operating Hours	10 hours continuous operation
Display	8-digit LCD with LED back light
Keypads	1 operation and 2 programming keys
Direct Readout	<ul style="list-style-type: none">VOCs as parts-per-million by volumePeak high and low valuesSTEL and TWA values for VOC gasesBattery and shutdown voltageElapsed time
Alarm	<ul style="list-style-type: none">90 dB buzzer and flashing red LED to indicate exceeded limitsHigh: 3 beeps and flashes per secondLow: 2 beeps and flashes per secondSTEL and TWA: 1 beep and flash per secondAutomatic reset or latching alarms with manual overrideAdditional diagnostic alarm and display message for low battery and pump stall
Datalogging	Optional 4,000 points downloadable to PC with serial number of unit, user ID, site number, calibration and check-calibration time, date and value
Calibration	Two-point calibration for zero and gas span
Hazardous Area Approval	<ul style="list-style-type: none">US/Canada: UL, cUL, Classified as Intrinsically Safe for use in Class I, Division 1 Groups A, B, C, D, Hazardous Locations T4 ratingEurope: EEx ia IIC T4
Temperature	-4° to 113°F (-20° to 45°C) for VOC detectors
Humidity	0% to 95% relative humidity (non-condensing)
Attachments	Pocket/belt clip
Warranty	Lifetime on non-consuming components (per RAE Systems Standard Warranty), 1 year on sensor and consumable parts, 1 year battery

*Ongoing projects to enhance our products mean that these specifications are subject to change

Monitor only includes:

- ToxiRAE Plus PID monitor with VOC sensor
- RAE Systems UV Lamp, as specified
- Calibration adapter with tubing
- Protective rubber boot with integral belt clip
- Operation and maintenance manual
- Alkaline battery adapter for 2 AA batteries
- Rechargeable Ni-Cd battery
- Single-unit charging station
- 120/230 V AC/DC charger (if specified)

Monitor with accessories kit also includes:

- Hard transport case with pre-cut foam
- Membrane filters (pack of 5)

Optional calibration kit also includes:

- Isobutylene gas in a 34L cylinder
- Calibration regulator and tubing

Datalogging Monitors also include:

- ProRAE Suite Software Package for Windows 98, NT, 2000 and XP
- Computer interface cable

TOXIRAE Plus PID



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