

# **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**
- **Shipyard and maritime**
- **Pulp and paper industry**
- **Paint and coating operations**



## 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"><li>Rechargeable, 2.4 V, 1100 mAh, Ni-Cd battery pack or 2AA alkaline battery adapter for VOC monitor</li><li>Battery charger: 10 hours through charging station</li></ul>
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"><li>VOCs as parts-per-million by volume</li><li>Peak high and low values</li><li>STEL and TWA values for VOC gases</li><li>Battery and shutdown voltage</li><li>Elapsed time</li></ul>
Alarm	<ul style="list-style-type: none"><li>90 dB buzzer and flashing red LED to indicate exceeded limits</li><li>High: 3 beeps and flashes per second</li><li>Low: 2 beeps and flashes per second</li><li>STEL and TWA: 1 beep and flash per second</li><li>Automatic reset or latching alarms with manual override</li><li>Additional diagnostic alarm and display message for low battery and pump stall</li></ul>
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"><li>US/Canada: UL, cUL, Classified as Intrinsically Safe for use in Class I, Division 1 Groups A, B, C, D, Hazardous Locations T4 rating</li><li>Europe: EEx ia IIC T4</li></ul>
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

**AM AUTOMAT MEDICION**

Vendemos soluciones.

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