



# ToxiRAE Pro PID

Personal Wireless Monitor  
For Volatile Organic Compounds



The ToxiRAE Pro PID is the world's smallest volatile organic compound (VOC) monitor. Featuring RAE Systems' next-generation PID sensor, the ToxiRAE Pro PID can quickly detect and accurately monitor over 300 VOCs. The ToxiRAE Pro PID provides safety professionals wireless remote access to real-time instrument readings and alarm status for better visibility and faster incident response<sup>1</sup>. With an onboard library of 190 correction factors, the ToxiRAE Pro PID can be programmed to automatically read in equivalent units of the specified compound.

- **Wireless elevates safety to the next level**
- **Available in Industrial Hygiene (advanced) or Safety (basic) configurations**
- **Man Down Alarm with real-time remote wireless notification**
- **Easy to maintain with replaceable sensor, fan, filter, and battery**
- **Fully automatic bump testing and calibration with AutoRAE 2<sup>2</sup>**

## KEY FEATURES

Wireless. Personal. Proven.

- Wireless access to real-time instrument readings and alarm status from any location
- Unmistakable five-way local and remote wireless notification of alarm conditions
- Largest display in its class
- Continuous datalogging<sup>3</sup>
- On-board correction factor library for 190 compounds
- Easy to use
- Reliable, rugged, and intrinsically safe

## APPLICATIONS

- Industrial hygiene and safety
  - Chemical plants
  - Government health, safety, security, and environmental agencies
  - Hazardous materials teams, first responders
  - Oil and gas
  - Pharmaceutical plants
- Environmental applications
  - Environmental consulting
  - Soil remediation



Worker exposure monitoring with ToxiRAE Pro PID at a PVC plant



AutoRAE 2  
Compatible



# ToxiRAE Pro PID



Personal Wireless Monitor for Volatile Organic Compounds

## SPECIFICATIONS<sup>4</sup>

|                                     |  |
|-------------------------------------|--|
| Size                                | 4.6" H x 2.4" W x 1.2" D (118 x 60 x 30 mm)  |
| Weight                              | 8.29 oz. (235 g.)  |
| Sensor                              | Photoionization sensor with 10.6 eV (standard) or 9.8 eV <sup>2,3</sup> (optional) lamp. Response time (T <sub>90</sub> ) < 15 sec. (Isobutene). Field-replaceable sensor. Easy access to lamp for cleaning  |
| Detectable Gases                    | A wide variety of ionizable chemicals using 190 built-in and over 300 published correction factors   |
| Battery                             | Rechargeable Li-ion battery<br>- Operating time: > 12 hours (normal operation, non-wireless)<br>- Recharge time: < 4 hours through charging cradle   |
| Display                             | Graphical LCD display with white LED backlighting (activated when monitor is in alarm or with a button press)  |
| Display Readout                     | - Real-time reading of VOC concentrations in parts per million or mg/m <sup>3</sup> ; battery status; data logging on/off; wireless on/off and reception quality<br>- STEL, TWA, and peak values   |
| Keypad                              | 2 buttons for operation and programming  |
| Sampling                            | Internal fan   |
| Calibration                         | Automatic with AutoRAE 2 Test and Calibration System <sup>2</sup> or manual  |
| Alarm Modes                         | - Wireless remote alarm notification <sup>1</sup> ; audible (95 dB @ 30 cm), vibration, visible alarm (flashing bright red LEDs), and on-screen indication of alarm conditions<br>- Man Down Alarm with pre-alarm and real-time remote wireless notification |
| Datalogging                         | - Continuous datalogging <sup>3</sup> with a three-month capacity (at one-minute intervals)<br>- User-configurable datalogging interval (from 1 to 3,600 seconds)  |
| Communication and Data Download     | - Data download and instrument set-up on PC via charging and PC comm. cradle<br>- Data download via AutoRAE 2 Automatic Test and Calibration System<br>- Wireless data and status transmission <sup>1</sup> via built-in RF modem (optional)                 |
| Wireless Network                    | ProRAE Guardian Real-Time Wireless Safety System or Closed-Loop Network with the EchoView Host   |
| Wireless Frequency                  | ISM license-free bands   |
| Wireless Range (Typical)            | ToxiRAE Pro PID to Mesh Router, EchoView Host, or Mesh Reader <sup>2</sup> ~ 330 feet (100 meters)<br>ToxiRAE Pro PID to RAELink3 Mesh or RAELink3 Z1 Mesh modems ~ 33 feet (10 meters)  |
| Operating Temperature               | -4° to 131°F (-20° to 55°C)  |
| Humidity                            | 0% to 95% relative humidity (non-condensing)   |
| Hazardous Location Approvals        | CSA:  Class I, Division 1, Groups A, B, C and D. T-code T4<br>Class I, Zone 0 A/Exia IIC T4<br>ATEX:  II 1G, Ex ia IIC Ga T4<br>IECEX: Ex ia IIC Ga T4<br>China Ex: Ex ia IIC T4   |
| CE Compliance (European Conformity) | EMC directive: 2004/108/EC. R&TTE directive: 1999/5/EC. ATEX directive: 94/9/EC  |
| Warranty                            | - Two years on non-consumable components<br>- One year on sensor, fan, battery, and other consumable parts   |

1 Wireless units have a functioning RF modem and are ready for wireless deployments; non-wireless units cannot be upgraded to wireless. Additional equipment and/or software licenses may be required to enable remote wireless monitoring and alarm transmission.

2 Contact RAE Systems for availability.

3 Available with Industrial Hygiene configurations only.

4 Specifications are subject to change.

## TOXIRAE PRO PID COMES WITH:

- ToxiRAE Pro PID monitor with sensor as specified, alligator clip, protective rubber boot, and rechargeable battery installed
- Charging and PC communication cradle
- PC communication cable
- AC adapter (100 to 240 V, 50/60 Hz AC to 12 V DC)
- Calibration adapter
- Combined instrument/sensor cap removal tool
- Quick Start Guide
- CD with documentation
- ProRAE Studio II software for PC-based instrument configuration and data management
- Technical Note TN-106 with ionization energies and correction factors for 300+ VOCs<sup>3</sup>
- Calibration card; quality certificate; and warranty/registration card

## OPTIONAL ACCESSORIES

- AutoRAE 2 Automatic Test and Calibration System
- Multi-unit charging station for up to five monitors

## ORDERING INFORMATION (MODEL: PGM-1800)

- Industrial Hygiene (advanced) and Safety (basic) configurations are available

### Industrial Hygiene configurations:

- Advanced PID sensor (0.1 to 2,000 ppm; 0.1 ppm resolution)
- Datalogging
- 9.8 eV or 10.6 eV lamp options

### Safety configurations:

- 10.6 eV; 1 to 1,000 ppm; 1 ppm resolution PID
- No datalogging
- 10.6 eV lamp only

- Wireless or non-wireless versions are available<sup>1</sup>
- Refer to the Portables Pricing Guide for part numbers for monitors, accessories, maintenance kits, gas, sensors, and replacement parts

## CORPORATE HEADQUARTERS

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