

# Personal Wireless Gas Monitor with PID

## RAE Systems ToxiRAE Pro PID

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.

### FEATURES

- Wireless access to real-time instrument readings and alarm status from any location
- Wireless elevates safety to the next level
- On-board correction factor library for 190 compounds
- Available in Industrial Hygiene (advanced) or Safety (basic) configurations
- Wireless access to real-time instrument readings and alarm status from any location
- Unmistakable five-way local and remote wireless notification of alarm conditions
- Reliable, rugged, and intrinsically safe
- Largest display in its class
- Continuous datalogging<sup>3</sup>
- Fully automated bump testing and calibration with AutoRAE 2<sup>2</sup>
- Easy to maintain with replaceable sensor, fan, filter, and battery

### APPLICATIONS

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



ToxiRAE Pro PID  
with and without the  
protective rubber boot



**CALL GEOTECH TODAY (800) 833-7958**

**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

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### SPECIFICATIONS <sup>4</sup>

<b>Size</b>	4.6" H x 2.4" W x 1.2" D (118 x 60 x 30 mm)
<b>Weight</b>	8.29 oz. (235 g)
<b>Sensor</b>	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.
<b>Detectable Gases</b>	A wide variety of ionizable chemicals using 190 built-in and over 300 published correction factors
<b>Battery</b>	Rechargeable Lithium-ion battery - Operating time: > 12 hours (normal operation) - Recharge time: < 4 hours through charging cradle
<b>Display</b>	Graphical LCD display with white LED backlighting (activated when monitor is in alarm or with a button press)
<b>Display Readout</b>	- 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 - STEL, TWA, and peak values
<b>Keypad</b>	2 buttons for operation and programming
<b>Sampling</b>	Internal fan
<b>Calibration</b>	Automatic with AutoRAE 2 Test and Calibration Station <sup>2</sup> or manual
<b>Alarm Modes</b>	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
<b>Datalogging</b>	Continuous datalogging <sup>3</sup> with a three-month capacity (at one-minute intervals) - User-configurable datalogging interval (from 1 to 3,600 seconds)
<b>Communication and Data Download</b>	- Data download and instrument set-up on PC via charging and PC comm. cradle - Data download via AutoRAE 2 Automated Test and Calibration Station - Wireless data and status transmission <sup>1</sup> via built-in RF modem (optional)
<b>Wireless Network</b>	ProRAE Guardian Real-Time Wireless Safety System or Closed-Loop Network with the EchoView Host
<b>Wireless Frequency</b>	ISM license-free bands
<b>Wireless Range (Typical)</b>	ToxiRAE Pro PID to Mesh Router, EchoView Host, or Mesh Reader <sup>2</sup> ~ 330 feet (100 meters) ToxiRAE Pro PID to RAELink3 Mesh or RAELink3 Z1 Mesh modems ~ 33 feet (10 meters)
<b>Operating Temperature</b>	-4° to 131°F (-20° to 50°C)
<b>Humidity</b>	0% to 95% relative humidity (non-condensing)
<b>Dust and Water Resistance</b>	IP54 rating for dust and water ingress protection (validated by an independent test laboratory)
<b>Hazardous Location Approvals</b>	US and Canada: CSAUS Class I, Division 1, Groups A, B, C and D. T-code T4 Class I, Zone 0 A/Exia IICT4 Europe: ATEX: CE, Ex II 1G, Ex ia IIC Ga T4 IECEX: Ex ia IIC Ga T4 China: Ex ia IICT4
<b>CE Compliance (European Conformity)</b>	EMC directive: 2004/108/EC. R&TTE directive: 1999/5/EC. ATEX directive: 94/9/EC
<b>Warranty</b>	- Two years on non-consumable components - One year on sensor, fan, battery, and other consumable parts

### 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 (Industrial Hygiene versions only)
- Calibration card, quality certificate, packing list, and warranty/registration card

### OPTIONAL ACCESSORIES

- AutoRAE 2 Automated Test and Calibration Station
- Multi-unit charging station for up to five monitors
- Contact Geotech for other accessories, maintenance kits, calibration gas, sensors, and replacement parts

### CONFIGURATIONS

- Industrial Hygiene (advanced) and Safety (basic)<sup>2</sup> configurations are available

#### Industrial Hygiene configurations:

- Advanced PID sensor (10.6 eV; 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 option only

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 Geotech for availability.

3 Available with Industrial Hygiene configurations only.

4 Specifications are subject to change.

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