ToxiRAE Pro PID

Personal Wireless Monitor

Wireless. Personal. Proven.

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. 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.

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[3]
- Calibration card; quality certificate; and warranty/registration card

Optional Accessories:

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

Key Features:

- 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[3]
- On-board correction factor library for 190 compounds
- Easy to use
- Reliable, rugged, and intrinsically safe
- Available in Industrial Hygiene (advanced) or Safety (basic) configurations
- Easy to maintain with replaceable sensor, fan, filter, and battery
- Fully automatic bump testing and calibration with AutoRAE 2

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

GASTECH
AUSTRALIA

ToxiRAE Pro PID

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Analyser specifications:

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 [2,3] (optional) lamp. Response time (T 90) < 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 - Operating time: > 12 hours (normal operation, non-wireless) - 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^3; battery status; data logging on/off; wireless on/off and reception quality - STEL, TWA, and peak values
Keypad:	2 buttons for operation and programming
Sampling:	Internal Fan
Calibration:	Automatic with AutoRAE 2 Test and Calibration System 2 or manual
Alarm Modes:	- Wireless remote alarm notification[1]; audible (95 dB @ 30 cm), vibration, visible alarm (flashing bright red LEDs), and on-screen indication of alarm conditions. - Man Down Alarm with pre-alarm and real-time remote wireless notification
Datalogging:	- Continuous datalogging[3] with a three-month capacity (at one-minute intervals) - 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 - Data download via AutoRAE 2 Automatic Test and Calibration System - Wireless data and status transmission[1] 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 to Mesh Router, EchoView Host, or Mesh Reader[2] ~ 330 feet (100 meters) ToxiRAE Pro to RAELink3 Mesh or RAELink3 Z1 Mesh modems ~ 33 feet (10 meters)
Operating Tempuature:	-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 Class I, Zone 0 A/Exia IIC T4 ATEX: CE, EX, II 1G, Ex ia IIC Ga T4 IECEx: Ex ia IIC Ga T4 China Ex: Ex ia IIC T4
CE Compliance:	EMC directive: 2004/108/EC. R&TTE directive: 1999/5/EC. ATEX directive: 94/9/EC
Warranty:	- Two years on non-consumable components - One year on sensor, fan, battery and other consumable parts
Part No.	72-8018-PID

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 Gastech Australia for availability. 3 Available with Industrial Hygiene configurations only. 4 Specifications are subject to change.