

# Personal Carbon Dioxide Monitor

## *RAE Systems ToxiRAE Pro CO<sub>2</sub>*

The ToxiRAE Pro CO<sub>2</sub> is the world's first wireless personal carbon dioxide monitor. It provides safety professionals with wireless remote access to real-time instrument readings and alarm status for better visibility and faster incident response.

The ToxiRAE Pro offers datalogging capability and is equipped with a "Man Down" alarm and policy enforcement to ensure greater safety while making sure compliance-related procedures such as periodic testing and calibration are performed.

### 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
- Wireless remote monitoring enhances worker safety
- Man Down Alarm with real-time wireless remote notification
- Intelligent sensor stores calibration data, so it can be swapped in the field
- Largest display in its class
- Continuous datalogging
- Easy to use
- Easy to maintain, with replaceable sensor, filter, and Li-Ion battery
- Fully automatic bump testing and calibration with AutoRAE 2
- Reliable and rugged

### APPLICATIONS

- Chemical manufacturing
- Food and beverage
- Wineries and breweries
- Landfills
- Water and wastewater facilities



**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](mailto:sales@geotechenv.com) website: [www.geotechenv.com](http://www.geotechenv.com)

# Personal Carbon Dioxide Monitor

## RAE Systems ToxiRAE Pro CO<sub>2</sub>

### SPECIFICATIONS

<b>Size</b>	4.6" H x 2.4" W x 1.2" D (118 x 60 x 30 mm)
<b>Weight</b>	7.76 oz. (220 g)
<b>Sensor</b>	Nondispersive infrared sensor Range: 0 to 50,000 ppm Resolution: 100 ppm
<b>Battery</b>	Rechargeable Li-ion battery - Operating time: > 11 hours (normal operation 25°C/77°F, non-wireless) - 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 gas concentrations in parts per million (ppm); 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>	Diffusion
<b>Calibration</b>	Automatic with AutoRAE 2 Test and Calibration System or manual
<b>Alarm Modes</b>	- Wireless remote alarm notification; 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
<b>Datalogging</b>	- Continuous datalogging 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 Automatic Test and Calibration System - 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 to Mesh Router or EchoView Host ~ 660 feet (200 meters) ToxiRAE Pro to RAElink3 Mesh or RAElink3 Z1 Mesh modems ~ 330 feet (100 meters)
<b>Operating Temperature</b>	-4° to 131°F (-20° to 55°C)
<b>Humidity</b>	0% to 95% relative humidity (non-condensing)
<b>Dust and Water Resistance</b>	IP-65
<b>Hazardous Location Approvals</b>	Unit cannot be used in hazardous area
<b>CE Compliance (European Conformity)</b>	EMC directive: 2004/108/EC. R&TTE directive: 1999/5/EC
<b>Warranty</b>	- Two years on non-consumable components - One year on all other sensors, battery, and other consumable parts

<sup>1</sup> 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. Specifications are subject to change.

### TOXIRAE PRO CO<sub>2</sub> COMES WITH:

- ToxiRAE Pro CO<sub>2</sub> 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 adapters
- Quick Start Guide
- CD with documentation
- ProRAE Studio II software for PC-based instrument configuration and data management
- 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



AutoRAE 2 with ToxiRAE Pro cradles

### OPTIONS: (MODEL: PG M-1850)

- Wireless or non-wireless versions are available<sup>1</sup>
- Contact Geotech for part numbers for monitors, accessories, maintenance kits, gas, sensors, and replacement parts.

**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