



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

Personal Wireless Monitor For Carbon Dioxide



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.

## 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
- Intelligent sensor stores calibration data, so it can be swapped in the field
- Largest display in its class
- Continuous datalogging
- Easy to use
- Reliable and rugged

## INDUSTRIES

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

- **Wireless remote monitoring enhances worker safety**
- **Man Down Alarm with real-time wireless remote notification**
- **Easy to maintain, with replaceable sensor, filter, and Li-Ion battery**
- **Fully automatic bump testing and calibration with AutoRAE 2**



The world's first personal wireless monitor for carbon dioxide



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

Personal Wireless Monitor For Carbon Dioxide



## SPECIFICATIONS

|                                     |   |
|-------------------------------------|---|
| Size                                | 4.6" H x 2.4" W x 1.2" D (118 x 60 x 30 mm)   |
| Weight                              | 7.76 oz. (220 g)  |
| Sensor                              | Nondispersive infrared sensor<br>Range: 0 to 50,000 ppm<br>Resolution: 100 ppm  |
| Battery                             | Rechargeable Li-ion battery<br>- Operating time: > 11 hours (normal operation 25° C / 77° F, 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 gas concentrations in parts per million (ppm); battery status; datalogging on/off; wireless on/off, and reception quality<br>- STEL, TWA, and peak values  |
| Keypad                              | 2 buttons for operation and programming   |
| Sampling                            | Diffusion   |
| Calibration                         | Automatic with AutoRAE 2 Test and Calibration System or manual  |
| Alarm Modes                         | - Wireless remote alarm notification; 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 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 setup 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 to Mesh Router or EchoView Host ~ 660 feet (200 meters)<br>ToxiRAE Pro to RAELink3 Mesh or RAELink3 Z1 Mesh modems ~ 330 feet (100 meters)  |
| Operating Temperature               | -4° to 131° F (-20° to 55° C)   |
| Humidity                            | 0% to 95% relative humidity (non-condensing)  |
| Dust and Water Resistance           | IP-65   |
| Hazardous Location Approvals        | Unit cannot be used in hazardous area   |
| CE Compliance (European Conformity) | EMC directive: 2004/108/EC. R&TTE directive: 1999/5/EC  |
| Warranty                            | - Two years on non-consumable components<br>- 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

## ORDERING INFORMATION (MODEL: PGM-1850)

- Wireless or non-wireless versions are available<sup>1</sup>
- Contact your local RAE Systems distributor for part numbers for monitors, accessories, maintenance kits, gas, sensors, and replacement parts

## CORPORATE HEADQUARTERS

### RAE Systems by Honeywell

3775 North First Street  
San Jose, CA 95134 USA  
raesales@raesystems.com

DS-1085-02

## WORLDWIDE SALES OFFICES

**USA/Canada** 1.877.723.2878  
**Europe** +45.86.52.51.55  
**Middle East** +00971.4.440.5949  
**China** +86.10.5885.8788-3000  
**Asia Pacific** +852.2669.0828

[www.raesystems.com](http://www.raesystems.com)