ToxiRAE Pro CO$_2$

Personal Wireless Monitor For Carbon Dioxide

The ToxiRAE Pro CO$_2$ 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 wirelss remote notification

- Easy to maintain with replaceable sensor, filter and Li-Ion battery

- Fully automatic bump testing and calibration with AutoRAE2

The world's first personal wireless monitor for carbon dioxide

Wireless   AutoRAE 2 Compatible   ISO 9001 CERTIFIED   CE   FCC

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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 Range: 0 to 50,000 ppm Resolution: 100 ppm
Battery	Rechargeable Li-ion battery - Operating time: > 11 hours (normal operation 25˚ C / 77˚ F, 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 gas concentrations in parts per million (ppm); battery status; datalogging on/off; wireless on/off, and reception quality - 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. - Man Down Alarm with pre-alarm and real-time remote wireless notification
Datalogging	- Continuous datalogging 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 setup 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 or EchoView Host ~ 660 feet (200 meters) 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&TT directive: 1999/5/EC
Warranty	- Two years on non-consumable components - One year on all other sensors, 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 maybe required to enable remote wireless monitoring and alarm transmission.

Specifications are subject to change.

TOXIRAE PRO CO₂ comes with:

- ToxiRAE Pro CO₂ 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[1]