TOXIRAE PRO CO$_2$

Personal Wireless Monitor

The ToxiRAE Pro CO₂ 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.
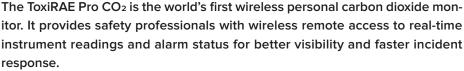
The ToxiRAE Pro offers datalogging capability and is equipped with a "Man Down" alarm and policy enforcement to ensure greater safety while making sure compliance-related procedures such as periodic testing and calibration are performed.

TOXIRAE PRO CO₂ COMES WITH

- ToxiRAE Pro CO$_2$ 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

APPLICATIONS:

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

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**
- **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**
- **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**

TOXIRAE PRO CO$_2$

SPECIFICATIONS   Specifications subject to change without notice

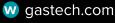|	
Size	4.6 "H x 2.4" W x 1.2" D(118 x 60 x 30mm)
Weight	7.76oz. (220g)
Sensor	Nondispersive infrared sensor Range: 0 to 50,000 ppm Resolution: 100ppm
Battery	Rechargeable Li-ion battery Operating time: > 11 hours (normal operation 25° C / 77° F, non-wireless) Recharge time: < 4 hours through charging
Display	Graphical LCD display with white LED back-lighting (activated when monitor is in alarm or with a button press)
Display Readout	Real-time reading of gas concentrations in parts per million (ppm) 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	Diffusion
Calibration	Automatic with AutoRAE 2 Test and Calibration System[2] 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 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] ~ 660 feet (200 meters) ToxiRAE Pro to RAELink3 Mesh or RAELink3 Z1 Mesh modems ~ 330 feet (100 meters)
Operating Tempuature	-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	EMC directive: 2004/108/EC. R&TTE directive: 1999/5/EC
Warranty	Two years on non-consumable components One year on all other sensors, battery, and other consumable parts
Part Number	72-8018-CO$_2$

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 for availability.

3 Gastech recommends calibrating sensors on installation.

4 Specifications are subject to change.