



ToxiRAE Pro LEL

Personal Wireless Monitor
for Combustible Gases and Vapors



The ToxiRAE Pro LEL is the world's first wireless personal combustible gas monitor^{1,2}. The ToxiRAE Pro LEL takes worker protection to the next level by providing safety professionals wireless access to real-time instrument readings and alarm status from any location for better visibility and faster response. The ToxiRAE Pro LEL promptly detects and accurately monitors explosives and combustibles in concentrations from 0 to 100% of the lower explosive limit (LEL). With an onboard library of 34 correction factors, the ToxiRAE Pro LEL can be programmed to automatically read in % LEL of the specified compound.

- World's first wireless personal combustible gas monitor
- Wireless elevates worker protection to the next level
- Easy to maintain with replaceable sensor, filter, and Lithium-ion battery
- Fully-automated bump testing and calibration with AutoRAE 2²

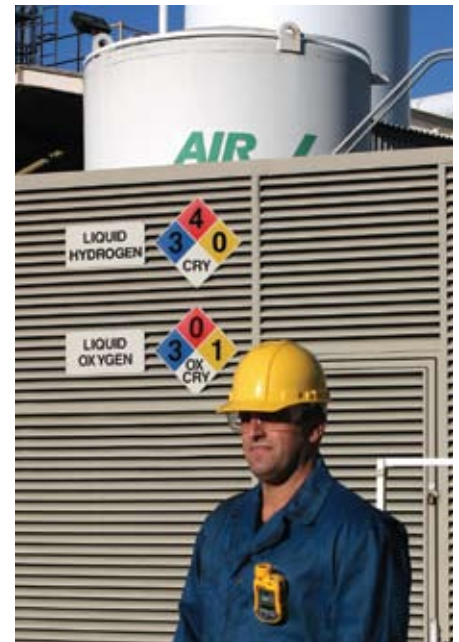
KEY FEATURES

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
- 34 built-in LEL correction factors
- Largest display in its class
- Reliable, rugged, and intrinsically safe
- Continuous datalogging
- Easy to use

APPLICATIONS

- Construction
- Foundries
- Steel Mills
- Oil and Gas
- Pharmaceutical
- Utilities
- Water and Wastewater
- Welding/Hot Work



The world's first personal wireless combustible gas monitor protects workers without getting in the way



AutoRAE 2
Compatible



ToxiRAE Pro LEL



Personal Wireless Monitor for Combustible Gases and Vapors

SPECIFICATIONS³

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	Catalytic bead LEL sensor with 0 to 100% LEL range and 1% LEL resolution. Response time (T ₉₀) < 15 seconds
Detectable Gases	Combustible gases and vapors from paints, coatings, fuels, degreasers, adhesives, solvents, resins, etchers, inks, pesticides, herbicides, etc. using 34 onboard correction factors
Battery	Rechargeable Lithium-ion battery - Operating time: > 12 hours (normal operation) - 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 % of lower explosive limit (LEL); battery status; data logging on/off; wireless on/off and reception quality - Peak values - Calibration and measurement gases; correction factors
Keypad	2 buttons for operation and programming
Sampling	Diffusion
Calibration	Automatic with AutoRAE 2 Test and Calibration Station ² or manual
Alarm Modes	Wireless remote alarm notification ^{1,2} ; audible (95 dB @ 30 cm), vibration, visible alarm (flashing bright red LEDs), and on-screen indication of alarm conditions - Additional diagnostic alarm and display message for low battery
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 Automated Test and Calibration Station ² - Wireless data and status transmission ^{1,2} via built-in RF modem (optional)
Wireless Network	RAE Systems Dedicated Wireless Network
Wireless Frequency ^{1,2}	ISM license-free bands
Wireless Range ^{1,2} (Typical)	300 feet (100 meters)
Operating Temperature	-4° to 122° F (-20° to 50° C)
Humidity	0% to 95% relative humidity (non-condensing)
Dust and Water Resistance	IP-65 rating for dust and water ingress protection (validated by an independent test laboratory)
Hazardous Location Approvals	US and Canada: Class I, Division 1, Groups A, B, C and D. T-code T4 Class I, Zone 0 A/Exia IIC T4 Europe: ATEX: II 1G, Ex ia IIC Ga T4 IECEX: Ex ia IIC Ga T4 China: Ex ia IIC T4
CE Compliance (European Conformity)	EMC directive: 2004/108/EC. R&TTE directive: 1999/5/EC. ATEX directive: 94/9/EC
Performance Test Compliance	C22.2 No 152 ANSI/ISA-12.13.01
Warranty	- Two years on LEL sensor and non-consumable components - One year on battery and other consumable parts

¹ Wireless functionality is scheduled for availability in 2011 in North America and Europe. Contact RAE Systems for availability in other regions.

² Contact RAE Systems for availability.

³ Specifications are subject to change.

⁴ Wireless units have a functioning RF modem and are ready for wireless deployments; Wireless-capable units can be upgraded to wireless in the field for a fee; 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.

TOXIRAE PRO LEL SINGLE-PACK COMES WITH:

- ToxiRAE Pro LEL monitor with sensor, 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; packing list; and warranty/registration card

OPTIONAL ACCESSORIES

- AutoRAE 2 Automated Test and Calibration Station²
- Multi-unit charging station² for up to five monitors
- Refer to the Portables Pricing Guide for other accessories, maintenance kits, gas, sensors, and replacement parts

ORDERING INFORMATION (MODEL: PGM-1820)

- Wireless, wireless-capable, or non-wireless versions are available^{1,2,4}
- Bulk packages of 10 units are available for select configurations
- Refer to the Portables Pricing Guide for part numbers





Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.