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 2[2]**

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

Wireless   AutoRAE 2 Compatible   ISO 9001 CERTIFIED   CSP us   ATEX   IECEx   CE   Ex   FCC

ToxiRAE Pro [LEL]

Personal Wireless Monitor for Combustible Gases and Vapors

SPECIFICATIONS[3]

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: cCSAus Class I, Division 1, Groups A, B, C and D. T-code T4
	                                 Class I, Zone 0 A/Exia IIC T4
	Europe: ATEX: CE, Ex 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.

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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 Station[2]
- Multi-unit charging station[2] 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

Toll-Free: 877-723-2878