TOXIRAE PRO

Personal Wireless Monitor

The ToxiRAE Pro can detect a broad range of gases - from carbon monoxide, hydrogen sulfide, and oxygen to ammonia, chlorine, and formaldehyde.

The ToxiRAE Pro provides safety professionals wireless remote access to real-time instrument readings and alarm status for better visibility and faster incident response.

The ToxiRAE Pro's intelligent interchangeable sensors store calibration data, which allows users to monitor for one gas one day and another gas the next, by simply swapping the sensors as required[3].

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

SENSOR SPECIFICATIONS[4]

Sensor	Range	Resolution
Ammonia (NH_3)	0 to 100 ppm	1 ppm
Carbon Monoxide (CO)	0 to 500 ppm	1 ppm
Carbon Monoxide (CO) Ext. Range	0 to 2,000 ppm	10 ppm
Carbon Monoxide (CO) H2-comp.	0 to 2,000 ppm	10 ppm
Chlorine (Cl_2)	0 to 50 ppm	0.1 ppm
Chlorine Dioxide (ClO2)	0 to 1 ppm	0.03 ppm
Ethylene Oxide (EtO-A)	0 to 100 ppm	1 ppm
Ethylene Oxide (EtO-B)	0 to 10 ppm	0.1 ppm
Ethylene Oxide (EtO-C), Ext. Range	0 to 500 ppm	10 ppm
Formaldehyde (HCHO)	0 to 10 ppm	0.05 ppm
Hydrogen (H_2)	0 to 1,000 ppm	2 ppm
Hydrogen Cyanide (HCN)	0 to 50 ppm	0.5 ppm
Hydrogen Sulfide (H_2S)	0 to 100 ppm	0.1 ppm
Hydrogen Sulfide (H_2S), Ext. Range	0 to 1,000 ppm	1 ppm
Methyl Mercaptan (CH_3-SH)	0 to 10 ppm	0.1 ppm
Nitric Oxide (NO)	0 to 250 ppm	0.5 ppm
Nitrogen Dioxide (NO_2)	0 to 20 ppm	0.1 ppm
Oxygen (O_2)	0 to 30% Vol.	0.1% Vol.
Phosphine (PH_3)	0 to 20 ppm	0.1 ppm
Phosphine (PH_3), Ext. Range	0 to 1,000 ppm	1 ppm
Sulfur Dioxide (SO_2)	0 to 20 ppm	0.1 ppm

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 sensors store calibration data, so they can be swapped in the field**
- **Most electrochemical sensors are shared with MultiRAE family instruments**
- **Largest display in its class**
- **Continuous datalogging**
- **Easy to use**
- **Reliable, rugged, and intrinsically safe**
- **Compatible with AutoRAE II bump test and calibration station**
- **Multi-Unit charger available**

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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	Over 20 intelligent interchangeable field-re-placeable electrochemical sensors
Battery	Rechargeable Li-ion battery Operating time: > 30 hours (normal operation, 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) 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 re-al-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 Networkwith the EchoView Host
Wireless Frequency	ISM license-free bands
Wireless Range (Typical)	ToxiRAE Pro to Mesh Router, EchoView Host, or Mesh Reader[2] ~ 330 feet (100 meters) ToxiRAE Pro to RAELink3 Mesh or RAELink3 Z1 Mesh modems ~ 33 feet (10 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 rating for dust and water ingress protection (validated by an independent test laboratory)
Hazardous Location Approvals	CSA Class I, Division 1, Groups A, B, C and D.T-code T4 Class I, Zone 0 A/Exia IIC T4 ATEX CE, EX II 1G, Ex ia IIC Ga T4 IECEx Ex ia IIC Ga T4 China ExEx ia IIC T4 CE ComplianceEMC directive 2004/108/EC. R&TTE directive 1999/5/EC. ATEX directive 94/9/EC
Warranty	Two years on non-consumable components and CO, H2S, and O2 sensors One year on all other sensors, battery, and other consumable parts
Part Number	72-8018-XX (*Please specify gas)

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.