



ToxiRAE Pro

Personal Wireless Monitor for Toxic Gases and Oxygen

The ToxiRAE Pro is the world's first wireless personal monitor for toxic gases and oxygen¹. The ToxiRAE Pro can detect a broad range of gases—from carbon monoxide, hydrogen sulfide, and oxygen to ammonia, chlorine, and formaldehyde². 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 in the ToxiRAE Pro³.

- Wireless elevates safety to the next level
- Over 20 intelligent interchangeable sensor options to cover a wide variety of gases
- Man Down Alarm with real-time remote wireless notification
- Easy to maintain with replaceable sensor, filter, and Li-ion battery
- Fully-automatic bump testing and calibration with AutoRAE 2²

Applications

- Agriculture
- Chemical
- Fire service / HazMat
- Food and beverage
- Oil and gas
- Pharmaceutical
- Pulp and paper
- Steel manufacturing
- Water and wastewater industries

Optional Accessories

- AutoRAE 2 Automatic Test and Calibration System
- Multi-unit charging station for up to five monitors



ToxiRAE Pro Comes With:

- ToxiRAE Pro 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
- Calibration card, quality certificate, and warranty/registration card

FEATURES & BENEFITS

- 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
- Device Management with Honeywell Sotera™

ToxiRAE Pro Specifications

| INSTRUMENT 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) |
| SENSORS | Over 20 intelligent interchangeable field-replaceable 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 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 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 TEMPERATURE | -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) |
| SAFETY CERTIFICATIONS | CSA: Class I, Division 1, Groups A, B, C and D. T-code T4 Class I, Zone 0 A/Exia IIC T4 ATEX: II 1G, Ex ia IIC Ga T4 IECEx: Ex ia IIC Ga T4 China Ex: Ex ia IIC T4 |
| EMC/RFI | EMC directive: 2004/108/EC |
| WARRANTY | - Two years on non-consumable components and CO, H ₂ S, and O ₂ sensors - One year on all other sensors, battery, and other consumable parts |
| WIRELESS FREQUENCY | ISM license-free band. IEEE 802.15.4 Sub 1GHz |
| WIRELESS APPROVALS | FCC Part 15, CE R&TTE, Others ⁴ |
| RADIO MODULE | Supports RM900 |

| SENSOR SPECIFICATIONS | 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 | 1.0 ppm |
| CARBON MONOXIDE (CO), H ₂ -COMP. | 0 to 2,000 ppm | 1.0 ppm |
| CHLORINE (Cl ₂) | 0 to 50 ppm | 0.1 ppm |
| CHLORINE DIOXIDE (ClO ₂) | 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 | 1.0 ppm |
| FORMALDEHYDE (HCHO) | 0 to 10 ppm | 0.05 ppm |
| HYDROGEN (H ₂) | 0 to 1,000 ppm | 10ppm |
| HYDROGEN CYANIDE (HCN) | 0 to 50 ppm | 0.5 ppm |
| HYDROGEN SULFIDE (H ₂ S) | 0 to 100 ppm | 0.1 ppm |
| HYDROGEN SULFIDE (H ₂ S), 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 |
| SULFUR DIOXIDE (SO ₂) | 0 to 20 ppm | 0.1 ppm |

- 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 Honeywell RAE Systems for availability.
- 3 Honeywell RAE Systems recommends calibrating sensors on installation.
- 4 Contact Honeywell RAE Systems for country-specific wireless approvals and certificates. Specifications are subject to change.

ORDERING INFORMATION (MODEL: PGM-1860)

- Wireless or non-wireless versions are available¹
- Refer to the Portables Pricing Guide for part numbers for monitors, accessories, maintenance kits, gas, sensors, and replacement parts

For more information

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Datasheet_ToxiRAE-Pro-EC_DS-1064-10
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Device Management with
Honeywell Sotera™



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