

Wireless Multi-Gas Detector



RAE Systems QRAE 3 Wireless 4-Gas Monitor

QRAE 3 is a wireless compact monitor for one to four gases.

The QRAE 3 provides detection and monitoring of Oxygen (O_2) , Combustibles, and toxic gases that include Hydrogen Sulfide (H_2S) , Carbon Monoxide (CO), Sulfur Dioxide (SO_2) and Hydrogen Cyanide (HCN). QRAE 3 can deliver wireless real-time instrument readings and alarm status 24/7. This provides better incident visibility and can improve response time.

FEATURES

- Available in Diffusion or Pumped version
- IP-65/67 water- and dust-resistant case
- Strong, protective, concussion-proof design
- Real-time gas concentration readings and alarm status enabled by state-of-the-art wireless technology
- Unmistakable five-way local and remote wireless notification of alarm conditions
- Large graphical display icon-driven user interface through intuitive, simple-to-operate two-button user interface.
- · Multi-language support: 18 languages encoded
- Easy access to pump, sensors, filter and battery compartment
- Easy maintenance with field-replaceable sensors and pump
- Man Down Alarm with real-time remote wireless notification¹
- Fully automated bump testing and calibration with AutoRAE 2
- Large graphic display can rotate 180°

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QRAE 3 Diffusion

APPLICATIONS

Confined space entry and general safety and compliance in:

- · Industrial safety
- Oil and gas
- Fireground "Toxic Twins" detection
- Environmental
- Fire and Emergency response

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.
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RAE Systems QRAE 3 Wireless 4-Gas Monitor

SPECIFICATIONS

Size	Diffusion: 5.5" H x 3.2" W x 1.5" W (140 mm x 82 mm x 42 mm) Pumped: 5.7" H x 3.2" W x 1.7" D (145 mm x 82 mm x 42 mm)		
Weight	Diffusion: 12.9 oz. (365 g with Li-ion battery and clip) Pumped: 14.5 oz. (410 g with Li-ion battery, clip, and external filte		
Sensors	Up to four field-replaceable sensors: • LEL: Catalytic bead for combustibles (built-in Correction Factor library) • Oxygen: Liquid electrolyte O_2 • Electrochemical sensor for Toxics		
Battery	Rechargeable Li-ion		
Running Time	 14 hours continuous non-wireless, diffusion 11 hours continuous non- wireless, pumped 10 hours continuous with wireless, diffusion 8 hours continuous with wireless, pumped Note: All battery specifications at 68°F (20°C); lower temperatures and alarm conditions will affect runtime. 		
Display Graphic	Monochrome graphic display (128 x 80) Display size: 1.57" W x 1.06" H (40 x 27 mm) with backlighting Automatic or on-demand screen rotation		
Keypad	Two-button operation		
Direct Readout	 Real-time reading of gas concentrations Battery status Pump status (if equipped with pump) Wireless on/off and wireless reception quality STEL, TWA, peak, and minimum values Man Down and policy enforcement indicators 		
Alarms	Multi-tone 95dB buzzer (at 11.8"/30 cm, typical), vibration alarm and flashing red LEDs and on-screen indication of alarm condition Alarms: latching, non latching or manual override Additional diagnostic alarm and display message for low battery Pump stall alarm (pumped version only) Man Down Alarm with pre-alarm and real-time remote wireless notification		
Datalogging	Continuous datalogging (3 months for 4 sensors at 1-minute intervals, 24/7) User-configurable datalogging intervals (from 1 to 3,600 seconds)		
Communication & Data Download	Data download and instrument set-up and upgrades on PC via Travel Charger Wireless data and status transmission via built-in RF modem (optional)		
Wireless Network	Mesh RAE Systems Dedicated Wireless Network		
Wireless Frequency	ISM license-free bands, 868MHz or 900MHz		
Wireless Range (Typical)	EchoView Host: LOS > 650 ft. (200 m) ³ ProRAE Guardian & RAEMesh Reader: LOS > 650 ft. (200 m) ³ ProRAE Guardian & RAELink3 Mesh: LOS > 30 ft. (10 m) ³		
EM Immunity	EMI and ESD test: 100MHz to 1GHz 30V/m, no alarm Contact: ±4kV Air: ±8kV, no alarm		
IP Rating	Pumped: IP-65 Diffusion: IP-67		
Calibration	Two-point calibration for zero and span (manual, or automatic with AutoRAE 2)		

Sampling Pump	Built-in pump or diffusion Can sample through tubing up to 98 ft. (30 m)	
Hazardous Area Approval	US and Canada: classified for use in Class I, Division 1, Groups A, B C and D Europe: IECEx/ATEX (II 1G Ex ia IIC T4)	
Temperature	-4° to 112°F (-20° to 50°C) for T4 temperature code	
Humidity	0% to 95% relative humidity (non-condensing)	
Attachments	Stainless-steel alligator clip Swivel belt clip (optional) Pouch (optional)	
Languages	Arabic, Chinese, Czech, Dutch, English, French, German, Indonesian Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish and Turkish (language must be changed through ProRAE Studio II)	
Warranty	2-year warranty on device ² 3-year warranty on LEL, O_2 , CO , H_2S sensors ² 1-year warranty on other sensors	

Default Sensor Specifications

Gas Monitor	Range	Resolution
0xygen	0 to 30.0%	0.1%
Combustible	0 to 100% LEL	1% LEL
Carbon Monoxide	0 to 500 ppm	1 ppm
Hydrogen Sulfide	0 to 100 ppm	0.1 ppm
Sulfur Dioxide	0 to 20 ppm	0.1 ppm
Hydrogen Cyanide (HCN)	0 to 50 ppm	0.5 ppm
Ammonia (NH ₃)	100 ppm	1 ppm
Phosphine (PH ₃)	20 ppm	0.01 ppm
Chlorine (Cl ₂)	0 to 50 ppm	0.05 ppm
Nitrogen Dioxide (NO ₂)	0 to 50 ppm	0.1 ppm

Specifications are subject to change.

ORDERING INFORMATION

- Wireless¹ and non-wireless options available for all configurations
- Diffusion and pumped versions available for all configurations
- Contact Geotech for monitor configurations and accessories

OPTIONAL ACCESSORIES

- AutoRAE 2 Automatic Test and Calibration System
- External battery charger
- 1 Additional equipment and/or software licenses may be required to enable remote wireless monitoring and alarm transmission
- 2 Against factory defects
- 3 Receiving >80%

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