

QRAE II

Compact Multi-gas Detector for H₂S, CO, O₂, Combustible

The QRAE II is a fully featured compact, one to four sensor gas detector for detection of combustibles, oxygen, hydrogen sulphide and carbon monoxide. Key features include easy to change, externally accessed battery packs (available in rechargeable and alkaline versions), a water resistant case and a new state of the art O₂ sensor technology with extended life. The rechargeable lithium-ion battery pack provides up to 14 hours of continuous operation. The QRAE II includes storage capacity for 64,000 datalogging points which can be downloaded to any PC compatible with Windows 98, NT, 2000 or XP.

Key Features

Patented SPE O₂™ oxygen sensor unique feature:

- Lead free design that already complies with future RoHS standard
- Extended life compared to lead type electrochemical oxygen sensors resulting in low cost of ownership
- Leak free design, minimizing downtime

Best EMI/RFI immunity technology for products in its class, eliminating radio interference

Easy access to sensors, filters and battery compartment without exposing electronic components to potential damage

Big graphic display for easy overview of gas type and concentration

Alkaline adapter and rechargeable lithium-ion battery pack provide up to 14 hours of continuous operation

Rugged housing withstands harsh environments

- IP-65 water and dust resistant case
- Strong, protective concussion proof design

Additional Advantages

- One to four plug in sensors (combustibles, oxygen SPE O₂ hydrogen sulphide, carbon monoxide)
- Diffusion mode with optional manual sample pump
- Intuitive simple to operate two button user interface
- Display can be flipped 180° with the push of a button for easy viewing from belt or hand

- Multi-language support
- One-button calibration with auto-zero capability
- Loud 95dB audible alarm
- Bright red flashing visible alarm
- Vibration alarm
- Interchangeable drop in lithium-ion and alkaline battery packs
- Charging cradle doubles as an external battery charger
- Compatible with AutoRAE calibration station
- Optional confined space entry kit



Actual Size

QRAE II

Specifications

Detector Specifications

Size	5"L x 2.8"W x 1.5"H (11.5 x 7.6 x 4.6cm)
Weight	12oz (350g)
Sensors	<ul style="list-style-type: none"> Catalytic bead for combustibles Oxygen: SPE O₂ (non consumable solid polymer electrolyte technology) Toxic: electrochemical Co, H₂S
Battery	Interchangeable Lithium-ion and alkaline battery packs
Operating Period	Diffusion: Up to 14 hours continuous operation with Lithium-ion battery, up to 10 hours with alkaline battery (typical, without alarm)
Display Graphic	4 lines, with LED automatic back light in dim light or alarm condition
Keypad	Two-key operation
Direct Readout	<ul style="list-style-type: none"> Instantaneous reading up to four sensors Oxygen as percentage by volume Combustible gas as percentage of lower explosive limit (LEL), scalable using correction factors Toxic gases as parts per million by volume High and low values for all gases Battery and shutdown voltage Date, time, elapsed time, temperature
Alarms	<ul style="list-style-type: none"> 95dB buzzer (at 30cm) and flashing red LED High: 3 beeps and flashes per second STEL and TWA: 1 beep, vibration and flash per second Alarms latching with manual override or automatic reset Additional diagnostic alarm and display message for low battery
EMI/RFI	Highly resistant to EMI/RFI. Compliant with EMC directive 89/336/EEC additional +60 volts/meter
IP Rating	IP-65
Datalogging	Standard 12 days at one-minute intervals
Calibration	Two-point calibration for zero and span
Sampling Pump	Optional, external manual pump
Hazardous Area Approval	<ul style="list-style-type: none"> US and Canada: UL, cUL. Classified as intrinsically Safe for use in Class I, Division I Groups A, B, C, D, T3C Europe: ATEX II 2G EEx ia d IIC T4
Temperature	-4° to 113°F (-20° to 50°C)
Humidity	0% to 95% relative humidity (non-condensing)
Attachments	Stainless steel alligator clip
Warranty	2-year warranty

*Specifications are subject to change

DISTRIBUTED BY:

Ribble Enviro Ltd
www.ribble-enviro.co.uk

UNIT 5 GISBURN BUSINESS PARK,
GISBURN ROAD, GISBURN
LANCASHIRE BB7 4JP
TEL: 01200 445804 FAX: 01200 445809
EMAIL: sales@ribble-enviro.co.uk

Default Sensor Settings

Gas Monitor	Range	Resolution
Oxygen	0 to 30.0%	0.1%
Combustible	0 to 100%	1% LEL
Carbon Monoxide	0 to 1000ppm	1 ppm
Hydrogen Sulphide	0 to 100ppm	1 ppm

QRAE II Monitor includes:

- Monitor as specified
- Sensors as specified
- Calibration adapter
- Quick reference guide
- User manual and ProRAE Studio Software Package for Windows 2000, NT and XP on CD-ROM
- (Rechargeable version only) Charging/download cradle with computer interface cable
- (Rechargeable version only) Universal charger
- (Rechargeable version only) Lithium-ion battery pack

Confined Space Entry Kit (CSK1) (CSK2)

- Hard transport case with pre-cut foam
- 6' (2 meters) Tygon tubing
- 10" (25cm) stiff aluminum sample probe with Replaceable filter
- Constant flow hand pump
- Tool Kit
- (CSK2 only) Four-gas mix in a 34L cylinder (50% LEL 18% O₂, 10ppm H₂S, 50ppm CO)
- (CSK2 only) Calibration regulator and tubing



QRAE II exploded view



QRAE II shown with optional AutoRAE charging, bump test and calibration station

SPE O₂ sensor designed to meet RoHS directive