

Portable Multi Gas Monitor

Q-RAE Four-Gas Monitor

The Q-RAE Multi-Gas Monitor allows you to measure up to 4 gases. An excellent meter in a variety of confined space entry and other air monitoring applications.

FEATURES

- Plug-in smart sensors for LEL, O₂, H₂S, CO
- Built-in sample draw pump with stall feature
- Instantaneously displays 4 gases and their concentrations
- Water/dust resistant with protective rubber boot
- 20,000 point datalogging capacity (standard)
- Audible and visual alarms
- Smart battery charger keeps unit ready to go
- One button calibration with auto zero capability
- Operates for 12 hours on a rechargeable Lithium-Ion, or for 18 hours on extended duration Lithium-Ion battery.



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APPLICATIONS

- **Confined space entry**
 - Utility work such as sewers, manholes, and tunnels
 - Waste Water Treatment Plants
 - Mining and excavation industry
 - Landfill operations
 - Grain silos
- **Refineries and petrochemical plants**
 - Power plants
 - Drilling operations
 - Steel mills
 - Tank farms
 - Ocean going vessels

Q-RAE Monitor only includes: Q-RAE w/ internal pump; LEL, O₂, H₂S, and CO; Rechargeable Ni-Cad battery back; 120V AC/DC wall adapter; calibration adapter; 3" inlet probe; 10 water trap filters; carbon filters; operation and maintenance manual; rubber boot w/ belt clip; shipping case.

Q-RAE Confined Space kit includes: All items listed above plus 34 liter mixed calibration gas (50% LEL, 20.9% O₂, 10ppm Hydrogen Sulfide, 50 PPM Carbon Monoxide); calibration regulator; 15 feet (5m) Tygon tubing; tool kit; hard transport case.

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Q-RAE Four-Gas Monitor Specifications

<p>Size4.5" L x 3" W x 1.8" H (11.5cm x 7.6cm x 4.6cm)</p> <p>Weight15 oz (425g)</p> <p>Sensors<u>Combustible</u>: protected dual mode catalytic bead for 100% LEL and thermal conductivity for 0-100% by volume. <u>Oxygen</u>: electrochemical fuel-cell</p> <p>Operating hours ..12 hours of continuous operation with Lithium-Ion battery</p> <p>BatteryInterchangeable Lithium-Ion and alkaline battery packs. Rechargeable units include Lithium-Ion battery pack with internal smart changing 120V AC/DC wall adapter, and spare alkaline pack</p> <p>Display2 line, 16 digit LCD with LED back light, automatic activation in dim light or alarm condition</p> <p>Key pad1 operation key and 2 programming keys</p> <p>Attachmentdurable, high visibility rubber boot and wrist strap</p> <p>Temperature-4° to 113° F (-20° to 45° C)</p> <p>Humidity0% to 95% relative humidity (non-condensing)</p> <p>Direct readout.....Instantaneous readings for up to four sensors: <ul style="list-style-type: none"> • Oxygen as percentage by volume • Combustible: LEL range as percentage of (LEL) </p>	<ul style="list-style-type: none"> • Combustible: thermal conductivity mode as percent volume • Toxic gases as parts per million by volume • High & low values for all gases • STEL and TWA values of toxic gases • Battery and shut down voltage • Date, time, elapsed time, temperature, <p>Alarms95 dB buzzer and flashing red LED to indicate exceeded preset limits, High - 3 beeps & flashes per second Low - 2 beeps & flashes per second STEL & TWA - 1 beep & flash per second</p> <ul style="list-style-type: none"> • Alarms latching with manual override or automatic reset • Additional diagnostic alarm and display message for low battery and pump stall <p>Intrinsic safetyUL Classified as to intrinsic safety for use in Class 1, Div. I, Group A,B,C, and D hazardous locations</p> <p>CalibrationTwo point field calibration for zero and span, optional three-point calibration for oxygen</p> <p>Datalogging20,000 datalogging points downloadable to PC with serial number of unit, user ID, date, time, site number, calibration, and readings</p> <p>Sampling pump ..Internal pump user selectable flow-rate: Low---200cc/min, High---300cc/min</p>
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SENSOR SPECIFICATIONS

Gas Monitor	Range	Resolution	Response Time (T ₉₀)
Oxygen (O ₂)	0-30%	0.1%	15 seconds
Combustible gas (LEL)	0-100% LEL	1% LEL	15 seconds
Carbon Monoxide (CO)	0-500 ppm	1 ppm	20 seconds
Hydrogen Sulfide (H ₂ S)	0-100 ppm	1 ppm	30 seconds

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