

Portable Multi-Gas Monitor

RAE QRAE Four-Gas Monitor

The QRAE 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 and 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.



WHAT'S INCLUDED

QRAE Monitor only includes:

- QRAE with internal pump
- LEL, O₂, H₂S, and CO
- Rechargeable NiCd battery back
- 120V AC/DC wall adapter
- Calibration adapter
- 3" inlet probe
- 10 water trap filters
- Carbon filters
- Operation and maintenance manual
- Rubber boot with belt clip
- Shipping case

QRAE Confined Space Kit includes:

- All items listed above plus 34 liter mixed calibration gas (50% LEL, 20.9% O₂, 10 ppm hydrogen sulfide, 50 ppm carbon monoxide)
- Calibration regulator
- 15 feet (5m) Tygon® tubing
- Tool kit
- Hard transport case

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
- Utility vaults

CALL GEOTECH TODAY (800) 833-7958

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SPECIFICATIONS

MONITOR

Size:	4.5" L x 3" W x 1.8" H (11.5cm x 7.6cm x 4.6cm)
Weight:	15 oz. (425g)
Sensors:	
Combustible	Protected dual mode catalytic bead for 100% LEL and thermal conductivity for 0-100% by volume
Oxygen	Electrochemical fuel-cell
Operating Hours:	12 hours of continuous operation with lithium-ion battery
Battery:	Interchangeable lithium-ion and alkaline battery packs. Rechargeable units include lithium-ion battery pack with internal smart charging 120V AC/DC wall adapter, and spare alkaline pack.
Display:	2 line, 16 digit LCD with LED back light, automatic activation in dim light or alarm condition
Key Pad:	1 operation key and 2 programming keys
Attachment:	Durable, high visibility rubber boot and wrist strap
Temperature:	-4° to 113° F (-20° to 45°C)
Humidity:	0% to 95% relative humidity (non-condensing)
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), thermal conductivity mode as percent volume • Toxic gases as parts per million by volume • High and low values for all gases • STEL and TWA values of toxic gases • Battery and shut down voltage • Date, time, elapsed time, temperature
Alarms:	95 dB buzzer and flashing red LED to indicate exceeded preset limits
High	3 beeps and flashes per second
Low	2 beeps and flashes per second
STEL & TWA	1 beep and flash per second <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
Intrinsic Safety:	UL classified as to intrinsic safety for use in Class 1, Div. I, Group A, B, C, and D hazardous locations
Calibration:	Two point field calibration for zero and span, optional three-point calibration for oxygen
Datalogging:	20,000 datalogging points downloadable to PC with serial number of unit, user ID, date, time, site number, calibration, and readings
Sampling Pump:	Internal pump user selectable flow-rate: <ul style="list-style-type: none"> Low 200cc/min High 300cc/min

SENSOR

Gas Monitor	Range	Resolution	Response Time (T90)
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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