

Multi-Gas Monitors with PID

RAE MultiRAE PLUS & MultiRAE IR

The MultiRAE PLUS and MultiRAE IR Multi-Gas Monitors with PID allows you to detect a variety of toxic and combustible gases, oxygen and VOCs.

FEATURES

- **New MultiRAE IR with CO₂ sensor!**
Measure 0-20,000 ppm
- **Plug-in interchangeable toxic gas sensors**
Carbon monoxide, hydrogen sulfide, sulfur dioxide, nitric oxide, nitrogen dioxide, chlorine, hydrogen cyanide, ammonia, phosphine, ethylene oxide
- **Strong, built-in sample draw pump with pump stall feature**
Built-in pump eliminates need to charge and connect separate pump module
- **Rugged, compact design**
- **Programmable alarm thresholds**
Activates both audible alarm and flashing LED visual display when alarm threshold levels are exceeded
- **Audible and visual alarm with flashing LED**
Varying tones for different alarm conditions and an optional remote vibration alarm for noisy areas
- **Large, bright back light display**
Alarm, dim light, or manually activated with up to 5 gases and their concentrations displayed
- **20,000 point data logging storage capacity for optional data download to PC**
- **Smart battery charger**
Unit is always ready to go
- **Field replaceable battery**
10 hours of continuous monitoring with li-ion rechargeable battery and alkaline battery adapter included
- **Ask about Rental Units – Call Today!**
LEL, O₂ and other sensors available



MultiRAE PLUS with rubber boot attached



MultiRAE IR

WHAT'S INCLUDED

MultiRAE PLUS Multi-Gas Monitor with PID includes:

- Rubber boot with belt clip
- Water trap filter
- Calibration adapter
- Charger (if applicable)
- Alkaline battery adapter
- Quick reference guide and operation/maintenance manual

Confined space kit includes:

- 34 liter cylinder mixed calibration gas (50% LEL, 25 ppm hydrogen sulfide, 50 ppm carbon monoxide)
- Calibration regulator
- Spare water trap filters
- 15 feet (5m) of Tygon tubing (and hand pump for diffusion model)
- Tool kit and hard transport case

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.
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RAE MultiRAE PLUS & MultiRAE IR

SPECIFICATIONS

GENERAL	Size 4.65" L x 3.0" W x 1.9" H (1.8 x 7.6 x 4.8cm) Weight 16 oz. with batteries (454g) Detector Protected catalytic bead for combustible gases, interchangeable electrochemical sensor for oxygen and toxic gases, photoionization detector for VOCs; 10.6 eV lamp standard, 11.7 eV lamp optional Operating Hours 10 hours continuous, unit will run and charge simultaneously Battery Rechargeable, 4.8 V, 1.4 mAh, li-ion battery pack or 4 AA alkaline battery adapter, field replaceable Battery Charging 10 hours through built-in or external charger Display 2 line, 16 digit LCD with LED back light automatically in dim light or alarm Key Pads 1 operation key and 2 programming keys Attachment Wrist strap and rubber armor case Datalogging 20,000 points (64 hours, 5 channels, at one minute intervals, download to PC with serial number of unit, user ID and site number, and calibration date) Datalog Interval 1-3, 600 seconds Sampling Pump Internal pump, flow rate 150 ml./min.	Alarm 90 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 alarms latching with manual override or automatic reset, additional diagnostic alarm and display message for low battery and pump stall Direct Readout Instantaneous (up to 5) values: oxygen as percentage of air by volume, combustible gas as percentage of lower explosion limit (LEL), toxic gases and VOCs as parts per million by volume. High and low values for all gases, STEL and TWA values of toxic gases and VOCs, battery and shut down voltage, date, time, elapsed time, temperature, and LEL/VOC scale (using correction factors) Intrinsic Safety UL, cUL Class 1, Div. I, Group A, B, C, D EEx ia IIC T4 (MultiRAE IR not classified intrinsically safe with CO ₂ sensor) Calibration Two point field calibration for zero and span gas Temperature -4° to 113° F (-20° to 45° C) Humidity 0% to 95% relative humidity (non-condensing)
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GAS MONITOR

	Range	Resolution	Response Time (T90)		Range	Resolution	Response Time (T90)
Oxygen	0-30%	0.1%	30 seconds	Nitric Oxide	0-250 ppm	1 ppm	20 seconds
Combustible Gas	0-100% LEL	1%	10 seconds	Nitrogen Dioxide	0-20 ppm	0.1 ppm	25 seconds
VOCs	0-200 ppm	0.1ppm	20 seconds	Chlorine	0-10 ppm	0.1 ppm	60 seconds
	200-2000 ppm	1 ppm	20 seconds	Hydrogen Cyanide	0-100 ppm	1 ppm	60 seconds
Carbon Monoxide	0-500 ppm	1 ppm	20 seconds	Ammonia	0-50 ppm	1 ppm	150 seconds
Hydrogen Sulfide	0-100 ppm	1 ppm 40	seconds	Phosphine	0-5 ppm	0.1 ppm	60 seconds
Sulfur Dioxide	0-20 ppm	0.1 ppm	20 seconds	Carbon Dioxide	0-20,000 ppm	10 ppm	60 seconds

ALARM SETTING

Separate alarm limit for: Deficiency and enrichment of oxygen concentration, low and high combustible gas concentration, TWA, STEL, low and high for toxic gases and VOCs

Gas	Symbol	MultiRAE Factory Preset Alarm Settings*				Calibration* Gas Concentration
		STEL	TWA	Low	High	
Oxygen	O ₂	–	–	19.5%	23.5%	20.9%
Combustible Gas	–	–	–	10%	20%	50% LEL
VOCs	–	50	25	50	100	100 ppm isobutylene
Carbon Monoxide	CO	100	35	35	200	50 ppm
Hydrogen Sulfide	H ₂ S	15	10	10	20	10 ppm
Sulfur Dioxide	SO ₂	5	2	2	10	5 ppm
Nitric Oxide	NO	25	25	25	50	25 ppm
Nitrogen Dioxide	NO ₂	1	1	1	10	5 ppm
Chlorine	Cl ₂	1	0.5	0.5	5	10 ppm
Hydrogen Cyanide	HCN	4.7	4.7	4.7	50	10 ppm
Ammonia	NH ₃	35	25	25	50	50 ppm
Phosphine	PH ₃	1	0.3	1	2	5 ppm

*User programmable

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