

# Portable Multi Gas Monitors

## EntryRAE Portable Gas Monitor with PID

The EntryRAE is the first confined space (CSE) monitor to protect you from both the expected and the unexpected. EntryRAE starts with the 4 traditional CSE sensors - Oxygen (O<sub>2</sub>), Lower Explosive Limit (LEL), Hydrogen Sulfide (H<sub>2</sub>S), and Carbon Monoxide (CO) - and adds a Photo Ionization Detector (PID) to protect you from over 300 toxic volatile organic compounds (VOCs) that are found in substances such as fuels, oils, degreasers, and paints. Applications include refineries, semiconductor manufacture, chemical processing, and agriculture.

### FEATURES

- Up to 5 sensors in one monitor
- Interchangeable Lithium-ion and alkaline battery packs
- Up to 16 hours of continuous operation
- Big, easy-to-read display
- Programmable alarms
- Datalogging
- Sample draw over 100' (30 meters)
- Visual alarm with bright red flashing LEDs
- Loud audible alarms
- 0-999 ppm measurement of total VOCs with 1 ppm resolution
- Low-flow pump flow alarm



EntryRAE with Docking Station

### DETECTOR SPECIFICATIONS

<b>Size</b>	5.9"L x 3.3"W x 1.9"H (15 x 8.3 x 4.8 cm) without clip
<b>Weight</b>	20 oz (567 g) with battery and clip
<b>Sensors</b>	4 or 5 sensors: <ul style="list-style-type: none"> <li>• Protected catalytic bead for combustible gases, Electrochemical sensors for oxygen and hydrogen sulfide (H<sub>2</sub>S) and carbon monoxide (CO), Photoionization detector for broadband detection of VOCs using 10.6 eV lamp,</li> </ul>
<b>Battery</b>	<ul style="list-style-type: none"> <li>• Drop in rechargeable Li-ion battery pack</li> <li>• Standard alkaline battery adapter</li> <li>• Charging cradle doubles as external battery charger</li> </ul>
<b>Operating Hours</b>	16 hours with continuous Li-ion battery pack 12 hours with alkaline
<b>Display</b>	Large 1.4" x 1.8" (3.5 x 4.5 cm) display with automatic back-lighting in dim light or alarm condition
<b>Keypads</b>	1 operation key and 2 programmable keys
<b>Direct Readout</b>	Instantaneous for 5 values: <ul style="list-style-type: none"> <li>• Oxygen as percentage by volume, Combustible gas as percentage of lower explosive limit (LEL), VOCs, CO and H<sub>2</sub>S, as parts per million, TWA and STEL values for VOC's, CO, H<sub>2</sub>S, High and low values for all gases, High: 3 beeps and flashes per second, Low: 2 beeps and flashes per second, STEL and TWA: 1 beep and flash per second, Low battery displays empty battery symbol, 1 beep per minute</li> </ul>
<b>EMI/RFI</b>	Highly resistant to EMI/RFI. Compliant with EMC Directive 89/336/EEC
<b>IP Rating</b>	IP-55: protected against dust, protected against low pressure jets of water from all directions
<b>Communication</b>	RS232
<b>Calibration</b>	Two point field calibration for zero and span gas
<b>Sampling Pump</b>	Internal pump, 500 cc per minute flow rate
<b>Low Flow Alarm</b>	Auto shut off at low flow condition
<b>Hazardous Area Approval</b>	UL Class 1 Div. 1, groups A, B, C, D T3C pending, CSA pending, ATEX pending
<b>Temperature</b>	-4° to 113°F (-20° to 45°C)
<b>Humidity</b>	0 to 95% Relative Humidity (non-condensing)
<b>Attachments</b>	Stainless steel alligator clip (installed), wrist strap
<b>Warranty</b>	Lifetime on non-consuming components (per RAE Standard Limited Warranty) 2 years for O <sub>2</sub> , LEL and CO, and H <sub>2</sub> S sensors 1 year for PID 1 year for pump and battery

### SENSOR SPECIFICATIONS

Sensor	Range	Resolution
Broadband Chemical	0 - 999 ppm VOC	1 ppm VOC
Oxygen	0-30%	0.1%
Combustible Gases	0-100% LEL	1% LEL
Carbon Monoxide	0-500 ppm	1 ppm
Hydrogen Sulfide	0-100 ppm	1 ppm

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