

Portable Multi Gas Monitor

VRAE Five Gas Surveyor

The VRAE Five Gas Surveyor is a hand-held 1, 2, 3, 4, or 5 combustible, toxic and oxygen gas monitor with built-in sampling pump. Sensors include dual range 0-100% volume, 0-100% LEL, oxygen and up to 4 smart interchangeable toxic sensors.

FEATURES

- **Interchangeable toxic gas sensors**
Carbon monoxide, hydrogen sulfide, sulfur dioxide, nitric oxide, nitrogen dioxide, chlorine, ammonia, hydrogen cyanide, phosphine, and chlorine dioxide
- **Strong, built-in sample draw pump with pump stall feature**
Eliminates need to charge & connect separate pump
- **Rugged, lightweight, compact design**
- **48 built-in LEL correction factors**
- **Ideal for low explosive level environments**
- **Audible and visual alarm with flashing LED**
Varying tones for different alarm conditions
- **Smart battery charger**
Unit is always ready to go
- **Field replaceable battery**
Up to 10 hours continuous monitoring & includes back-up alkaline battery adapter
- **16,000 point data logging storage capacity for optional data download to PC**
- **Large, bright back light display with up to 5 gases & concentrations displayed**
Alarm, dim light or manually activated
- **Ask about our Rental Unit - Call Today!**
LEL, O₂ & other sensors available



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VRAE Five Gas Surveyor Models 7800 & 7840 include: VRAE unit with combustible, oxygen and up to 3 toxic sensors (7800) OR combustible, and up to 4 toxic sensors (7840). Rechargeable NiMH battery pack, AC/DC charging adapter, backup Alkaline battery adapter (accepts 4 AA alkaline), inlet probe & water trap filter, operation and maintenance manual, 2 year warranty for LEL/O₂/CO/H₂S VRAE monitor.

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205

(303) 320-4764 • (800) 833-7958 • FAX (303) 322-7242

email: sales@geotechenv.com website: www.geotechenv.com

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VRAE Five Gas Surveyor Specifications

Size	8.3"L x 3.0"W x 1.9"H (21 x 7.6 x 4.9 cm)	Alarm	90 dB buzzer and flashing red LED to indicate exceeded preset limits
Weight20 oz with batteries (568mg).	High3 beeps & flashes per second
Detector	Catalytic sensor for combustible gas. Electrochemical sensors for oxygen and toxic gases	Low2 beeps & flashes per second
Operating hours	10 hours continuous	STEL & TWA	1 beep & flash per second
Battery	Rechargeable, snap-in field replaceable 4.8 V, 1.1 Ah, NiMH battery pack	Alarm	latching with manual override or automatic reset
Battery Charging	10 hours through built-in or external battery charger	Additional	diagnostic alarm and display message for low battery, sensor or calibration error
Display	2 line by 16 digit LCD with LED back light automatically in dim light or alarm	Calibration	Two point field calibration for zero and span gas
Key pads	1 operation key and 2 program keys	Datalogging	16,000 points (53 hours, 5 channels, at one minute intervals, download to PC with serial number of unit, user ID, site ID and calibration date)
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 as parts per million. High & low values for all gases. STEL and TWA values of toxic gases and VOC's. Battery and shutdown voltage. Elapsed time.	Datalog interval	1-3,600 seconds, programmable.
Intrinsic Safety (pending)	UL, cUL Class 1, Div. I, Group A,B,C,D EEx ia IIC T4 (Europe)	Sampling pump	Internal pump, flow rate 400 ml/min. Automatic shut off at low flow condition.
		Temperature	-4° to 113° F (-20° to 40° C)
		Humidity	0% to 95% relative humidity (non-condensing)

Gas monitor	Nominal Range	Extended Range	Resolution	Response Time (t90)
Combustible	0-100% LEL 0-100 VOL		1% 1%	15 seconds 20 seconds
Oxygen	0-30%		0.1%	15 seconds
Carbon Monoxide	0-500ppm	1500ppm	1ppm	40 seconds
Hydrogen Sulfide	0-100ppm	500ppm	1ppm	35 seconds
Sulfur Dioxide	0-20ppm	150ppm	0.1ppm	35 seconds
Nitric Oxide	0-250ppm	1000ppm	1ppm	30 seconds
Nitrogen Dioxide	0-30ppm	150ppm	0.1ppm	25 seconds
Chlorine	0-10ppm	30ppm	0.1ppm	60 seconds
Hydrogen Cyanide	0-100ppm	100ppm	1ppm	200 seconds
Ammonia	0-50ppm	200ppm	1ppm	150 seconds
Phosphine	0-5ppm	20ppm	0.1ppm	60 seconds
Chlorine Dioxide	0-10ppm	30ppm	0.1ppm	60 seconds

Accessories:

Confined space entry kit, Automotive charging adaptor, ProRAE suite software & interface cable, Collapsible remote sampling probe, Vibration alarm, Additional sensors, Calibration kits with gas cylinder, Flow regulator and tubing.

Environmental Applications:

- Refineries and petrochemical plants - confined spaces
- Utilities - cable vaults, transformer stations, excavations
- Waste water treatment plants - confined space entry
- Marine and off shore oil wells - testing of confined spaces
- Landfill operation - monitoring wells and confined spaces

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