



Multiplelabs
Turnkey Laboratories Solutions

VOC-9300

VOC Analyzer



The compact 9300 is a comprehensive VOC gas monitor and datalogger for hazardous environments. The 9300 is the most advanced handheld VOC monitor available for parts-per-billion detection. This third-generation patented PID device monitors VOCs using a photoionization detector with a 9.8 eV, 10.6 eV UV-discharge lamp. The built-in wireless modem allows real-time data connectivity with the ProRAE Guardian command center located up to two miles/3 km away (with optional RAELink3 portable modem) from the 9300 detector.

- Accurate VOC measurement in all operating conditions
- Easy access to lamp and sensor in seconds without tools
- Patented sensor and lamp autocleaning reduces maintenance
- Monitors real-time readings and location of people
- Low Cost of Ownership: 3-year 10.6 eV lamp Warranty

▶▶ **Key Features**

Proven PID Technology

- 3-second response time
- Extended range from 1 ppb to 10,000 ppm with best in class linearity
- Humidity compensation with integral humidity and temperature sensors

Integrated

- Real-time wireless data transmission through built-in Bluetooth & RAELink3 link
- Integrated Correction Factors list of 220 compounds-more than any other PID
- Includes flashlight for dark conditions
- Large graphic display presents gas type, Correction Factor and concentration

Durable

- Easy access to battery, lamp and sensor in seconds without tools
- Rugged housing withstands use in harsh environments
- IP-67 waterproof design for easy cleaning and decontamination

▶▶ **Applications**

- Oil & Gas
- HazMat
- Industrial Safety
- Civil Defense
- Environmental & Indoor Air Quality

►► Specifications

Detector Specifications

Size	10" Lx 3.0" W x 2.5"H (25.5 cm x 7.6 cm x 6.4 cm)
Weight	26 oz (738 g)
Sensors	Photoionization sensor with standard 10.6 eV or optional 9.8 eV lamp
Battery	<ul style="list-style-type: none"> • Rechargeable, external field-replaceable Lithium-Ion battery pack • Alkaline battery adapter
Operating Hours	16 hours of operation (12 hours with alkaline battery)
Display Graphic	4 lines, 28 x 43 mm, with LED backlight for enhanced display readability
Keypad	1 operation and 2 programming keys, 1 flashlight on/off
Direct Readout	<p>Instantaneous reading</p> <ul style="list-style-type: none"> • VOCs as ppm by volume or mg/m³ (3 in upper case for cubic) • STEL, TWA and PEAK • Battery and shutdown voltage • Date, time, temperature
Alarms	<p>95 dB (at 12"/30 cm) buzzer and flashing red LED to indicate exceeded preset limits</p> <ul style="list-style-type: none"> • High: 3 beeps and flashes per second • Low: 2 beeps and flashes per second • STEL and TWA: 1 beep and flash per second • Alarms latching with manual override or automatic reset <p>Additional alarm for low battery and pump stall</p>
EMI/RFI	<p>Highly resistant to EMI/RFI Compliant with EMC Directive 89/336/EEC</p>
IP Rating	<ul style="list-style-type: none"> • IP-67 unit off and without flexible probe • IP-65 unit running
Datalogging	Standard 6 months at one-minute intervals
Calibration	<p>Two-point or three-point calibration for zero and span Calibration memory for 8 calibration gases</p>
Sampling Pump	<ul style="list-style-type: none"> • Internal, integrated flow rate at 500 cc/mn • Sample from 100' (30m) horizontally and vertically
Low Flow Alarm	<ul style="list-style-type: none"> • Auto pump shutoff at low-flow condition
Communication	<ul style="list-style-type: none"> • Download data and upload instrument set-up from PC through charging cradle or optional Bluetooth™ • Wireless data transmission through built-in RF modem
Wireless Network	ProRAE Guardian Real-Time Wireless Safety System

Wireless Frequency	ISM license-free bands
Wireless Range (Typical)	9300 to RAELink3 or RAELink3 Z1 modems ~ 33 feet (10 meters)
Hazard Area Approval	<ul style="list-style-type: none"> • US and Canada: UL, cUL, Classified as Intrinsically Safe for use in Class I, Division 1 Groups A, B, C, D • Europe: ATEX Ex II 2GEx ia IIC/IIB T4 • IECEx: Ex ia IIC/IIB T4
Temperature	-4° to 113° F (-20° to 50° C)
Humidity	0% to 95% relative humidity (non-condensing)
Attachments	Durable black rubber boot with straps
Warranty	3-year warranty for 10.6 eV lamp, 1 year for pump, battery, and instrument

Sensor Specifications

Gas Monitor	Range	Resolution	Response Time T90
VOCs	0 to 9999 ppb	1 ppb	<3s
	10 to 99 ppm	0.01 ppm	<3s
	100 to 99 ppm	0.1 ppm	<3s
	1000 to 9999 ppm	1 ppm	<3s

►► Monitor Only Includes:

- 9300 Monitor, with RAE Systems UV lamp, as specified
- Datalogging with ProRAE Studio II
- Charging/download adapter
- VOC Zeroing Tubes (1 box)
- Tube adapter
- Tedlar® bag for calibration
- Flex-I-Probe™
- External filter
- Rubber boot with straps
- Alkaline battery adapter
- Lamp-cleaning and tool kit
- Operation CDROM
- Operation & Maintenance manual
- Soft leather case

▶▶ **Monitor with accessories kit adds:**

- Hard transport case with pre-cut foam padding
- Charging/download cradle
- 5 Porous metal filters and O-rings
- Organic vapor zeroing kit
- Gas outlet port adapter and tubing

▶▶ **Optional calibration kit adds:**

- 10 ppm isobutylene calibration gas, 34L
- Calibration regulator and flow controller

▶▶ **Optional Guaranteed Cost of Ownership Program:**

- 4-year repair and replacement guarantee
- Annual maintenance service