

# MiniRAE Lite

Portable Handheld VOC Monitor



The MiniRAE Lite is the most reliable handheld volatile organic compound (VOC) monitor on the market. Its photoionization detector's (PID) range of 0 to 5,000 ppm makes it an ideal instrument for applications ranging from environmental to construction.

## Key Features

- Proven PID technology—The patented sensor provides the following unique features:
  - 3-second response time
  - range up to 5,000 ppm
  - humidity compensation
- Designed for service—Easy access to lamp and sensor in seconds without tools
- Big graphic display for easy overview of concentration
- Field-interchangeable battery pack, replaceable in seconds without tools
- Integrated flashlight for better visibility in low light
- Multi-language support with 12 languages encoded
- Rugged housing withstands use in harsh environments
  - IP-65 design
  - Strong, protective removable rubber boot



**Accurate VOC monitoring**

**Fastest response time (3 sec)**

**Humidity compensation**

**Easy to maintain and operate**

**Three-year lamp warranty**

## Additional Advantages

- Duty-cycling™ lamp and sensor auto-cleaning technology
- Tough, flexible inlet Flexi-Probe™
- Large keys are operable with 3 layers of gloves
- Strong, built-in sample pump draws up to 100' (30m) horizontally or vertically
- Loud, 95 dB audible alarm
- Bright red flashing visible alarm
- Interchangeable drop-in Lithium-ion and alkaline battery packs
- 3-year 10.6 eV lamp warranty



*MiniRAE Lite shown in optional Cradle*



# MiniRAE Lite

## Specifications

### Sensor Specifications\*

Gas Monitor	Range (ppm)	Resolution (ppm)	Response Time (T90)
VOCs	0 to 999.9	0.1	< 3 sec
VOCs	1000 to 5,000	1	< 3 sec

### Monitor Specifications\*

Size	10" L x 3.0" W x 2.5" H (25.5 x 7.6 x 6.4 cm)
Weight	26 oz (738 g)
Sensors	Photoionization sensor with standard 10.6eV lamp
Battery	<ul style="list-style-type: none"><li>Alkaline battery adapter</li><li>External field-replaceable lithium-ion battery pack, if specified</li></ul>
Operating Hours	12 hours of operation on alkaline battery adapter (12 hours with lithium-ion battery pack)
Display Graphic	4 lines, 28 x 43 mm, with LED back light
Keypad	1 operation and 2 programming keys, 1 flashlight on/off
Direct Readout	Instantaneous reading of: <ul style="list-style-type: none"><li>VOCs as ppm by volume</li><li>High and low values</li><li>Date and time</li></ul>
Alarms	95 dB buzzer (at 30 cm) and flashing red LED to indicate exceeded preset limits <ul style="list-style-type: none"><li>High: 3 beeps and flashes per second</li><li>Low: 2 beeps and flashes per second</li><li>Alarm latching with manual override or automatic reset</li><li>Additional diagnostic alarm and display message for low battery and pump stall</li></ul>
EMI/RFI	Highly resistant to EMI/RFI. Compliant with EMC directive 89/336/EEC
IP Rating	IP-65
Calibration	Two-point calibration for zero and span
Sampling Pump	<ul style="list-style-type: none"><li>Internal, integrated flow rate at 400 cc/min</li><li>Sample from 100' (30m) horizontally and vertically</li></ul>
Low Flow Alarm	Auto shut-off pump at low-flow condition
Hazard Area Approval	None
Operating Temperature	-4° to 113° F (-20° to 50° C)
Humidity	0 to 95% relative humidity (non-condensing)
Attachments	Durable green rubber boot
Warranty	3 years for 10.6 eV lamp, 1 year for pump, battery and instrument

\*Specifications are subject to change

## MiniRAE Lite Ordering Options

### Monitor only includes:

- MiniRAE Lite Monitor, Model PGM-7300
- RAE Systems 10.6 eV UV lamp
- Flex-I-Probe
- External filter
- Green rubber boot
- Alkaline battery adapter
- Lamp cleaning kit
- Tool kit
- Lithium-ion (Li-ion) battery, if specified with universal AC/DC charger and international plug kit
- Travel charger, if specified
- Universal wall adapter, if specified
- Operation & Maintenance manual
- Soft leather carrying case

### Monitor with accessories kit adds:

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

### Optional calibration kit adds:

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

## Ordering Information

### Part Numbers

#### Monitor only with alkaline battery adapter

P/N 059-A100-000

#### Monitor with rechargeable Li-ion battery, accessory and calibration kit

P/N 059-A110-100

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