

Ribble Enviro
...everything gas detection

Data Sheet

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MiniRAE® Lite +

Portable Handheld VOC Monitor

The MiniRAE Lite + is one of the most reliable handheld volatile organic compound (VOC) monitors 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.

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



- Accurate VOC monitoring
- Fast response time (3 sec)
- Humidity compensation
- Easy to maintain and operate
- Three-year lamp warranty
- Reflex PID Technology™

FEATURES & BENEFITS

- Proven PID technology
 - The patented sensor provides the following unique features:
 - 3-second response time
 - Range up to 5,000 ppm
 - Humidity compensation
- Six-month datalogging
- 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

MiniRAE Lite + Specifications

SENSOR SPECIFICATIONS			
GAS MONITOR	RANGE	RESOLUTION	RESPONSE TIME
VOCS	0 to 999.9 ppm	0.1 ppm	< 3 sec
VOCS	1000 to 5,000 ppm	1 ppm	< 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"> - Alkaline battery adapter - External field-replaceable lithium-ion battery pack, if specified 		
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"> - VOCs as ppm by volume - High and low values - Date and time 		
ALARMS	95 dB buzzer (at 30 cm) and flashing red LED to indicate exceeded preset limits <ul style="list-style-type: none"> - High: 3 beeps and flashes per second - Low: 2 beeps and flashes per second - Alarm latching with manual override or automatic reset - Additional diagnostic alarm and display message for low battery and pump stall 		
EMI/RFI	<ul style="list-style-type: none"> - Highly resistant to EMI/RFI. - Compliant with EMC directive 89/336/EEC 		
IP RATING	IP-65		
DATALOGGING	Standard 6 months at one-minute intervals		
CALIBRATION	Two-point calibration for zero and span. Patented AutoZero feature		
SAMPLING PUMP	<ul style="list-style-type: none"> - Internal, integrated flow rate at 400 cc/min - Sample from 100' (30m) horizontally and vertically 		
LOW FLOW ALARM	Auto shut-off pump at low-flow condition		
WIRELESS NETWORK	* Bluetooth Low Energy (option)		
SAFETY CERTIFICATION	ATEX II 2G EEx ia IIC T4		
WIRELESS RANGE (typical)	Up to 15 ft (5m) for BLE		
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 padding
- 5 Porous metal filters and O-rings
- Gas outlet port adapter and tubing

Optional calibration kit adds:

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

For more information

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