

Photoionization Detector (PID)

RAE MiniRAE 2000

The MiniRAE 2000 Photoionization Detector (PID) with 3-D sensor detects toxic gases and vapors in low parts per million concentrations.

FEATURES

- **PID 3-D sensor...**
 - Easily accessible lamp and sensor
 - Reduced humidity interference
 - Improved linearity
 - Increased sensitivity
 - Extended range 0-10,000 ppm
- **3 year 10.6 eV lamp warranty**
Lifetime instrument warranty
Call for details!
- **Strong, built-in sample draw pump with pump stall feature**
 - Sample up to 100' (30m) horizontally or 90' (27m) vertically
 - Prevents liquid flow into the monitor
 - Warns if sample tubing is blocked or crimped
- **Field replaceable battery**
 - 10 hours of continuous monitoring
 - Alkaline battery adapter (4 AA)
- **Smart battery charger**
- **Large, bright back light display**
 - Alarm, automatic, or manually activated
- **Preset alarm thresholds**
 - For STEL, TWA, low and high level peak values
 - Alarms activated when limits are exceeded
- **Optional 15,000 point data logging storage capacity for data download to PC**
- **User selectable hygiene and survey modes**
- **Audible and Visual alarm with flashing LED**
 - Varying tones for different alarm conditions
- **102 Correction factors**
 - Stored in memory along with exposure limits
- **Ask about rental units and our “try before you buy program” – Call Today!**



MiniRAE 2000 Photoionization Detector

WHAT'S INCLUDED

MiniRAE 2000 Model PGM-7600 Monitor includes:
MiniRAE 2000 unit with 10.6eV PID detector, nickel metal hydride batteries, alkaline battery holder, rubber boot, inlet probe and water trap filter, operation and maintenance manual, soft travel case and Pro-RAE suite software (data logging version).

MiniRAE Model PGM-7600 Kit includes:
Items included with monitor, plus calibration gas, calibration regulator with flow controller, porous metal filter and O-ring kit, gas outlet port and tubing, tool kit and hard transport case.

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.
2650 East 40th Avenue • Denver, Colorado 80205
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Photoionization Detector (PID)

MiniRAE 2000

SPECIFICATIONS

Default Sensor Specifications*

| | Range (ppm) | Resolution (ppm) | Response (T90) |
|-----------------------------|--|------------------|--------------------|
| Gas Monitor VOCs | 0 to 99.9 100 to 10,000 | 0.1 1 | < 3 sec < 3 sec |
| Measurement Accuracy | (Isobutylene) ±2ppm or 10% of reading <2000ppm ±20% of reading >2000ppm | | |

Detector Specifications

| | |
|---------------------------|---|
| Size | 8.2" L x 3" W x 2" H (21.8cm x 7.62cm x 5.08cm) |
| Weight | 19.5 oz. (553 gm) with battery pack |
| Detector | Photoionization sensor with standard 10.6 eV, optional 9.8, or 11.7 eV UV lamp |
| Operating Hours | 10 hours continuous |
| Battery | Rechargeable, external, field replaceable nickel metal hydride battery pack Alkaline battery holder supplied (4 AA batteries not included) |
| Battery Charging | Up to 10 hours charge through built-in smart charger |
| Display | Large LCD, manual, darkness and alarm activated |
| PID Detector | Easy access to lamp and sensor for cleaning and replacement |
| Correction Factors | 102 built-in VOC gases |
| Calibration | Two point field calibration of zero and standard reference gas Calibration memory of 8 calibration curves, alarm limits, span values, calibration date |

| | |
|------------------------------|---|
| Robust Inlet Probe | Flexible 5" tubing |
| Large Key Pads | 1 operation and 2 program key |
| Direct Readout | Instantaneous, average, STEL and peak value, battery voltage and elapsed time |
| Intrinsic Safety | UL and cUL Class 1, Division I, Group A, B, C, D (US & Canada), EEx ia IIC T4 (Europe) |
| Alarm Setting | Separate preset alarm limit for high, low, STEL and TWA alarm |
| Alarm Mode | Latching and automatic reset |
| Communication | Download data and upload instrument setup from PC through RS232 link to serial port |
| Remote Control | Power On/Off and data logging through RS232 port |
| Analog Output | Calibrated output, user selectable full-scale range |
| Sampling Pump | Internal integrated flow rate 400 ml/min |
| Low Flow Alarm | Auto shut off pump at low flow condition |
| Temperature | 32° to 113°F (0° to 40°C) |
| Humidity | 0% to 95% relative humidity (non-condensing) |
| Optional Data Logging | 15,000 points with time/date Header information includes monitor serial number, user ID, site ID, date and time |
| Attachment | Wrist strap |
| Accessories | 9.8 and 11.7eV lamps, lamp cleaning kit, automatic charger, remote access probe, external vibration alarm, water trap filters, calibration gases, hard sided carry case, automotive charger adapter, charcoal trap, calibration gas, pump rebuild kit, and Tedlar bags. |

APPLICATIONS

Environmental:

- Air pollution-trace, toxic gases
- Leaking underground storage tanks
- Monitoring drums, perimeter fence line
- Leak detection-fugitive emissions (EPA method 21)
- Head space analysis
- Vapor recovery breakthrough

Industrial Hygiene, Health, Safety and Plant:

- Confined space entry - broad band, real time monitoring of low level toxic gases
- Emergency response to hazardous spills
- Indoor air quality in new, sick and mixed usage buildings
- Personal monitoring - determine levels for personal protective equipment (PPE)
- Survey instrument - prioritization of sample collection
- Work place monitoring - peak, STEL & TWA

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