

Photo Ionization Detector PID

MiniRAE 2000

The MiniRAE 2000 Photo Ionization 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 A Rental Unit and our "try before you buy program" - Call Today!**



MiniRAE 2000 Photo Ionization Detector

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).

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

Geotech Environmental Equipment, Inc.

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MiniRAE 2000 Photo Ionization Detector Specifications

Size	8.2" (21.8cm) L x 3" (7.62cm) W x 2" (5.08cm) H	Robust inlet probe	Flexible 5" tubing
Weight	19.5 oz (553 gm) with battery pack	Large key pads	1 operation and 2 program keys
Detector	Photo-ionization sensor with standard 10.6 eV, optional 9.8, or 11.7 eV UV lamp	Direct readout	Instantaneous, average, STEL and peak value, battery voltage and elapsed time
Operating hours	10 hours continuous	Intrinsic safety	UL and cUL Class 1, Division I, Group A, B, C, D (US & Canada), EEx ia IIC T4 (Europe)
Battery	Rechargeable, external, field replaceable Nickel Metal Hydride battery pack. Alkaline battery holder supplied (4 AA batteries not included)	Alarm setting	Separate preset alarm limit for high, low, STEL and TWA alarm
Battery charging	Up to 10 hours charge through built-in smart charger	Alarm mode	Latching and automatic reset
Display	Large LCD, manual, darkness and alarm activated	Data logging	15,000 points with time/date. Header information includes monitor serial number, user ID, site ID, date and time
Range, resolution & response time (t90)	Isobutylene (calibration gas) 0-999ppm 0.1ppm <3sec 100-10,000ppm 1ppm <3sec	Optional	
Measurement accuracy ..	(Isobutylene) ±2ppm or 10% of reading <2000ppm ±20% of reading >2000ppm	Communication	Download data and upload instrument setup from PC through RS-232 link to serial port. Software compatible with Windows™ 95, 98 and NT
PID Detector	Easy access to lamp and sensor for cleaning and replacement	Remote control	Power On/Off and data logging through RS-232 port
Correction factors	102 built-in VOC gases	Analog output	Calibrated output, user selectable full-scale range
Calibration	Two point field calibration of zero and standard reference gas. Calibration memory of 8 calibration curves, alarm limits, span values, and calibration date	Sampling pump	Internal integrated flow rate 400 ml/minute
		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)
		Attachment	Wrist strap

Environmental Applications:

- 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 Applications:

- 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

Accessories:

9.8 & 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.

CALL GEOTECH TODAY (800) 833-7958

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