

Photo Ionization Detector PID

MiniRAE PLUS Classic

The MiniRAE PLUS Classic Photo Ionization Detector (PID) detects toxic gases, vapors and Volatile Organic Compounds (VOCs) in low parts per million concentrations.

FEATURES

- **Interchangeable lamps**
Strong, reliable, electrodeless 10.6eV lamps are interchangeable with 11.7eV lamp used for extended sensitivity and **chlorinated hydrocarbon monitoring**, available 9.8eV lamp is used for benzene detection
- **Time tested reliable technology**
- **Calibration capability up to 1000ppm**
- **Extended standard range of 0-4000ppm**
- **Higher sampling pump flow rate of >500ml/min**
Incorporates powerful, positive displacement piston pump for remote continuous toxic monitoring, leak detection and sample collection
- **Programmable alarm thresholds**
Activates both audible buzzer and visual flashing LED when alarm threshold levels are exceeded
- **Rechargeable lead acid batteries**
Up 10 hours of continuous monitoring
- **Improved linearity and no saturation**
- **Rugged, compact design**
Weighs 18 ounces with batteries
Size: 7.1"L x 2.7"W x 1.8"H
- **Made in USA**



MiniRAE PLUS Classic PID

MiniRAE PLUS Classic PID monitor includes:

PGM-76 Unit (10.6eV lamp), 6" inlet probe, two rechargeable 6V, 500mAh batteries (installed inside), battery charger 110V AC to 12V DC, 0.8A, wrist strap attached, operation & maintenance manual, soft travel case.

Kit includes: *Items included with monitor plus:* calibration gas regulator with Flow Controller, 100ppm isobutylene calibration gas bottle, organic vapor zeroing kit, replacement filters and o-ring kit, gas outlet port adapter with tubing, leather carry case, belt attachment & shoulder strap, water trap cartridge, tool kit, substitute to hard transport case, operation and maintenance video.

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205

(303) 320-4764 • **(800) 833-7958** • FAX (303) 322-7242

email: sales@geotechenv.com website: www.geotechenv.com

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MiniRAE PLUS Classic Photo Ionization Detector Specifications

Size	7.1" L x 2.7" W x 1.8" H (18.0 x 6.9 x 4.6 cm)		calibrated to 100ppm isobutylene equivalent
Weight	18 oz with batteries (0.5 kg)	Response time	<3 sec to 90% when exposed to 100 ppm isobutylene
Detector	Interchangeable 10.6eV electrodeless ultraviolet discharge lamp with Teflon™/stainless steel chamber	Key pads	Two operation keys, two programming keys and ON/OFF key
Operating hours	10 hours continuous	Protection	Optional password protected calibration settings, alarm limits and stored data
Battery	Two rechargeable 6V, 500mAh sealed lead-acid, field replaceable. On/off switch maintains battery charge	Alarm setting: Survey mode	Separate alarm settings for low and high levels
Battery Charging	Built-in charger with LED status indicators. Typical charging time is 8 hours.	Alarm setting: Hygiene mode	Separate alarm settings for TWA, STEL and Peak levels
Gas Sampling	Piston pump with >500 mL/min intake flow rate	Alarm	95 dB buzzer and flashing red LED to indicate exceeded preset limits, low battery, or lamp failure
Gas Inlet Probe	6" flexible, 5/32" diameter	Calibration	Two point field calibration for zero and standard reference gas
Gas Outlet Connection	5/32" barb fitting	Temperature	14° to 104°F(-10° to 40°C)
Display	7 digit LCD with LED backlight	Humidity	0% to 100% relative humidity (non-condensing)
Analog output	0-1 V	Attachment	Wrist strap and leather carrying case
Range:	0.1 ppm 1000-4000 ppm with 1ppm resolution		
Accuracy	±2ppm or ±10% of reading		

Environmental applications:

- Air pollution - trace, toxic gases
- Leaking underground storage tanks
- Monitoring drums, perimeter fence line
- Personal monitoring
- Head space analysis
- Vapor recovery breakthrough

Accessories:

Electrodeless UV discharge lamp 11.7eV or 9.8eV, DLG-80 with 1AA battery, User's Manual, remote access probe assembly (8 ft), Dilution Probe (to measure fugitive emissions up to 10,000 - 20,000 ppm), Automotive Charger Cable 12 VDC, lamp cleaning kit, analog interface adapter, audio interface cable with earphone, Calibration Gases.

CALL GEOTECH TODAY (800) 833-7958

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