



Portable Gas Analyzer PGM-IR

Features & Benefits:

- Long-life, Non-Dispersive Infrared (NDIR) sensor allows for precision low-level leak detection
- Detection and measurement of CFC, HFC and HCFC refrigerants, as well as CO₂, N₂O and SF₆* gases
- Locates leaks in contaminated or high-ventilation areas
- Instrument comes with battery pack, probe, charger and soft case with shoulder strap
- LCD screen displays real-time gas concentrations with an audible tick-rate to pinpoint source of leaks
- Applications include refrigerant gas detection, trace gas analysis and medical monitoring
- Up to 12 hours operation on fully charged battery
- Locate leaks within display cases where traditional leak detectors cannot



Patent # 6,590,690

Accurate, Portable Low-Level Leak Detection

The PGM-IR is an advanced portable monitor that uses long-life non-dispersive infrared (NDIR) sensor technology for analyzing and checking low-level gas leaks. With very fast response and clearing times, the unit can identify and pinpoint very small levels of refrigerants, nitrous oxide or carbon dioxide gas in ambient air, showing real-time concentrations in either parts per million (ppm) or elapsed time weighted average (TWA) with a resolution down to 1 ppm.

The unit self-calibrates in 4 minute intervals by drawing ambient air through its filter to provide a good "zero" baseline, enabling the monitor to be used in contaminated environments without affecting the readings of the target gas. Additional features include datalogging of up to 200 readings, and a leak check mode with "tick-rate" audible / visual alarms. The PGM-IR's probe helps to locate leaks in small or hard to reach places.

PGM-IR Technical Specifications

Sensor:	Long-life Non Dispersive Infrared (NDIR); 5-7 year life
Refrigerants Detected:	CFC, HFC and HCFC unit: R11, R12, R21, R22, R23, R113, R114, R123, R124, R125, R134a, R227, R236fa, R245fa, R401a, R402, R402b, R404a, R407a, R407c, R408a, R409a, R410a, R422a, R422d, R424a, R426a, R427a, R438, R500, R502, R503, R507, R508b, fa188, fc72, H1211, HFO-1234YF, H1301, H2402, HFP, N1230
Range:	0 - 10,000 ppm; displayed in 1 ppm increments
Other Gases Available:	Carbon Dioxide (CO ₂): 0 - 100,000 ppm in 1 ppm increments Nitrous Oxide (N ₂ O): 0 - 1,000 ppm in 1 ppm increments Sulfur Hexafluoride (SF ₆): 0 - 1,000 ppm in 1 ppm increments
Response Time:	90% of response within 5 seconds; 100% in 7 seconds
Warm-up Time:	CO ₂ and refrigerant gases: 5 minutes N ₂ O and SF ₆ : 15 minutes
Flow Rate:	1 L/min typical
Power Supply:	Li-Ion rechargeable battery with battery life indicator
Temperature Range:	32 to 122°F (0 to 50°C)
Storage Temperature Range:	-4 to 122°F (-20 to 50°C)
Operating Humidity Range:	5 to 90% RH, non condensing
Leak Check Mode w/Probe:	Internal audible alarm, programmable; Visual alarm indicator
Dimensions:	8"D x 19"W x 5"H (20.3 cm x 48.3 cm x 12.7 cm)
Weight:	6 lbs. 12oz (3.07 kg)
Warranty:	2 Years (excluding contamination)

The PGM-IR is not designed or certified for intrinsic safety and may not be suitable for use in certain environments.

PGM-IR Common Configurations

3015-5696	PGM-IR Analyzer: HFC, CFC, HCFC Refrigerant Gases (without internal purge-air bladder)
3015-8001	PGM-IR Analyzer: Carbon Dioxide (CO ₂)
3015-4790	PGM-IR Analyzer: Nitrous Oxide (N ₂ O)
3015-5148	PGM-IR Analyzer: Sulfur Hexafluoride (SF ₆)*
3015-5739	PGM-IR Replacement Battery Pack
3015-5764	PGM-IR Replacement Battery Pack with Carry Case

** Special order only.*

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