



Portable Refrigerant Leak Detector

PGM-IR

FEATURES

1 ppm Minimum Detectable Level
 Fast response time
 50+ refrigerants accurately detected
 Infrared sensor
 Real-time ppm display
 Halogen, CO₂, N₂O and SF₆ versions available

BENEFITS

Detect leaks that other instruments can't
 Find leaks quickly, cut leak inspection times
 High performance across multiple sites
 Responds to target gas only, unaffected by temperature and humidity
 Quantifies leak to help easily find the source
 Accurate leak detection for multiple applications

The Most Powerful, Most Accurate Portable Refrigerant Detector

DESCRIPTION

The PGM-IR offers superior performance and functionality for low ppm level leak detection of refrigerants, Carbon Dioxide, Nitrous Oxide or Sulfur Hexafluoride. A built-in library of over 50 refrigerants enables the PGM-IR to accurately detect the smallest leaks at their source. The unit is immune to sudden changes in temperature or humidity and to over-exposure. The PGM-IR requires no zeroing of positive readings with extended exposure to gas. It has a data logging capacity of up to 200 readings.

With its high flow rate, real-time ppm concentrations or TWA values are displayed instantly with corresponding audible tick-rate indicator to precisely pinpoint leaks. Rapid clearing time enables accurate ambient-air leak detection using the probe along a chiller or display-case. A re-zeroing algorithm and filter/bladder system allows the unit to be used in contaminated areas without affecting target gas readings. The rechargeable Li-ion battery provides a minimum of 8 hours of runtime for all-day usage.



REAL-TIME PPM DISPLAY



COMMERCIAL



REFRIGERATION

TECHNICAL DATA

| PRODUCT ATTRIBUTES | DESCRIPTION |
|---------------------------|--|
| Sensor | Long-life Non Dispersive Infrared (NDIR); 5-7 year life |
| Refrigerants Detected | CFC, HFC and HCFC unit: CO ₂ , FA188, FC72, H1211, H1233ZD, H1234YF, H1234ZE, H1301, H2402, HFP, R-11, R-113, R-114, R-12, R-123, R-124, R-125, R-134a, R-21, R-22, R-227, R-23, R-236fa, R-245fa, R-32, R-401A, R-402A, R-404A, R-407A, R-407C, R-407F, R-408A, R-409A, R-410A, R-422A, R-422D, R-424A, R-426A, R-427A, R-438A, R-448A, R-449A, R-452A, R-452B, R-500, R-502, R-503, R-507, R-508B, R-513A, R-514A, Novec 1230, 4710, 7100, 7200, 7300, 7600 |
| Minimum Detectable Level | 1 ppm (most refrigerant gases) |
| Other Gases Available | Carbon Dioxide (CO ₂): 0 - 8,000 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 | T90 < 5 seconds; T100 < 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" x 19" x 5" (20.3cm x 48.3cm x 12.7cm) |
| Weight | 6 lbs 12 oz (3.07 kg) |
| Warranty | 2 Years (excluding contamination) |

PARTS AND ACCESSORIES

| PART NUMBER | DESCRIPTION |
|-------------|---|
| 3015-5743 | Rechargeable battery pack with charger |
| 3015-5700 | Replacement soft carrying case for all PGM units |
| 3015-5847 | Replacement battery charger (for 87 Wh battery 3015-5743) |
| 0007-1654 | PGM-IR internal hydrophobic filter |
| 3015-3071 | PGM-IR inline coalescing filter |
| 3015-3125 | PGM-IR charcoal purge filter assembly, for 3015-5696 |
| 3015-5714 | PGM-IR charcoal filter replacement kit, for 3015-5696 |
| 0204-0020 | Battery, coin cell, for main PCB |

ORDERING INFORMATION

| PART NUMBER | DESCRIPTION |
|-------------|--|
| 3015-5696 | PGM-IR Portable Area Gas Monitor - for halogen-based refrigerant gases |
| 3015-8001 | PGM-IR Portable Area Gas Monitor - for carbon dioxide |
| 3015-4790 | PGM-IR Portable Area Gas Monitor - for nitrous oxide |
| 3015-5148 | PGM-IR Portable Area Gas Monitor - for sulfur hexafluoride |



New Kensington, PA USA | Dun Laoghaire, Ireland | Toronto, Canada
mybacharach.com | help@mybacharach.com