



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



REAL-TIME PPM DISPLAY

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.



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, NH ₃ , 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



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