

# Bacharach® PGM-IR Portable Refrigerant Monitor



Portable Refrigerant Monitor That Finds Small Refrigerant Leaks Fast

## DESCRIPTION

The MSA Bacharach® 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

## Features

1 ppm Minimum Detectable Level  
Fast response time  
50+ refrigerants accurately detected  
Infrared sensor  
Real-time ppm display  
Halogen, CO<sub>2</sub>, N<sub>2</sub>O and SF<sub>6</sub> 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

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

# Bacharach® PGM-IR Portable Refrigerant Monitor



Product Attributes	Description
<b>SENSOR</b>	Long-life Non Dispersive Infrared (NDIR); 5-7 year life
<b>REFRIGERANTS DETECTED</b>	CFC, HCFC, HFC, and HFO: 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-402B, R-404A, R-407A, R-407C, R-407F, R-407H, R-408A, R-409A, R-410A, R-420A, R-422A, R-422D, R-424A, R-426A, R-427A, R-438A, R-448A, R-449A, R-452A, R-452B, R-454A, R-454B, R-454C, R-455A, R-463A, R-500, R-502, R-503, R-507, R-508B, R-513A, R-514A, Novec 1230, 4710, 7100, 7200, 7300, 7600
<b>MINIMUM DETECTABLE LEVEL</b>	1 ppm (most refrigerant gases)
<b>OTHER GASES AVAILABLE</b>	Carbon Dioxide (CO <sub>2</sub> ): 0 - 8,000 ppm in 1 ppm increments Nitrous Oxide (N <sub>2</sub> O): 0 - 1,000 ppm in 1 ppm increments Sulfur Hexafluoride (SF <sub>6</sub> ): 0-1,000 ppm in 1 ppm increments
<b>RESPONSE TIME</b>	T90 < 5 seconds; T100 < 7 seconds
<b>WARM-UP TIME</b>	CO <sub>2</sub> and refrigerant gases: 5 minutes   N <sub>2</sub> O and SF <sub>6</sub> : 15 minutes
<b>FLOW RATE</b>	1 L/min typical
<b>POWER SUPPLY</b>	Li-Ion rechargeable battery with battery life indicator
<b>TEMPERATURE RANGE</b>	32 to 122°F (0 to 50°C)
<b>STORAGE TEMPERATURE RANGE</b>	-4 to 122°F (-20 to 50°C)
<b>OPERATING HUMIDITY RANGE</b>	5 to 90% RH, non condensing
<b>LEAK CHECK MODE W/ PROBE</b>	Internal audible alarm, programmable; Visual alarm indicator
<b>DIMENSIONS</b>	8" x 19" x 5" (20.3 cm x 48.3 cm x 12.7 cm)
<b>WEIGHT</b>	6 lb. 12 oz. (3.07 kg)
<b>WARRANTY</b>	2 Years (excluding contamination)

## Parts & Accessories

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

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit <https://us.msasafety.com/Trademarks>.

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