

Model 21-070 Gas Leak Detector



Model 21-070 Mini Gas Leak Detector

Precision
instrument
designed to locate
leaks in gas or
volatile liquid filled
systems in
laboratory and
industrial locations.

The GOW-MAC® Model 21-070 Gas Leak Detector easily and quickly pinpoints gas leaks emitting from pressurized systems. Utilizing a thermal conductivity detector, the instrument responds to any gas mixture with a thermal conductivity different from that of air.

Helium leaks of 1×10^{-5} cc/sec are easily detected, as are many others such as refrigerant leaks of 1.1×10^{-4} cc/sec and argon leaks of 1.0×10^{-4} cc/sec to name a few.

Easy to Operate

The Model 21-070 Mini Gas Leak Detector can be operated with little or no training.

- Turn the unit on
- Zero
- Probe for leaks

Features

- Highly sensitive
- User-selectable hi/lo sensitivity settings
- Microprocessor control with computer interfacing (optional)
- Flash memory for saving various settings
 - alarm mode
 - alarm setpoint
 - alarm volume
 - peak hold delay
 - LED brightness
 - sensitivity
 - pump speed
- Pinpoint the exact leak site
- No messy soap solutions!
- No system contamination!

Industrial Applications

Testing & Quality Control

Valves & Manifolds

Welds, Seams, Joints

Pressure Regulators

Compression Fittings

High Pressure Vessels

High Pressure Gas Lines

Refrigeration & Air Conditioning

...and much more

Laboratory Applications

Gas Chromatographs

Purge & Trap Systems

Injection Ports/Septa

Column & Detector Fittings

Gas Purifiers & Traps

Mass Flow Controllers

Cylinder Connections

Tube Fittings

...and much more

SB-GLD



Global Headquarters

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Specifications

Detector	Thermal conductivity cell with thermistors
Visual Readout	<ul style="list-style-type: none"> · LED Bar Graph featuring adjustable brightness · Peak hold with settable duration
Pump	<ul style="list-style-type: none"> · Diaphragm type · Pump speed control
Line Voltage	<ul style="list-style-type: none"> · Model 21-070: 115 V, 60 Hz · Model 21-072: 230 V, 50 Hz
Battery	Rechargeable Ni-Cd, 7.36 V, 800 mAh
Battery Life	<ul style="list-style-type: none"> · 7-8 hours · Recharged to 95% of capacity in 1 hour · Low battery indicator · Very low battery shutdown
Ranges	<ul style="list-style-type: none"> · Low: x 1 High: x100 · Adjustable sensitivity for low and high ranges · Time Constant/Average
Zero	Manual with drift elimination
Audio Signal	Audible alarm with adjustable setpoint and volume
Features	<ul style="list-style-type: none"> · Flash memory for saving settings · Computer interface (optional) · Microprocessor controlled
Operating Temperature	70 °F +/- 20 °F (21 °C +/- 11 °C)
Dimensions	"5.25" L x 3.25" W x 1.81" H "(20.95 x 4.60 x 13.34 cm)"
Weight	<ul style="list-style-type: none"> · Instrument: 1.05 lbs (476 grams) · Charger: 0.61 lbs (277 grams)
Accessories	Carrying Case, p/n 59-050

Sensitivity

Minimum leak rate required to produce 10% deflection of full scale.

Helium	1.0 x 10 ⁻⁵ cc/sec	0.012 ft ³ /yr
Argon	1.0 x 10 ⁻⁴ cc/sec	0.110 ft ³ /yr
CO ₂	1.1 x 10 ⁻⁴ cc/sec	0.123 ft ³ /yr
Refrigerent	1.1 x 10 ⁻⁴ cc/sec	0.123 ft ³ /yr
40% H ₂ /60% He (fuel mixtures)	1.0 x 10 ⁻⁵ cc/sec	0.012 ft ³ /yr

Testing to a NIST-traceable standard available. Contact us for more information.



Ordering Information

Gas Leak Detector

- Model 21-070 Mini Gas Leak Detector: 115 V
- Model 21-072 Mini Gas Leak Detector: 230 V



Accessories

- Part No. 59-050 Carrying Case



CAUTION

The Model 21-070 is NOT designed to be used to determine leaks of combustable gases. It use air as their reference and is designed to determine low level leaks of any gas having a thermal conductivity different from that of air, therefore it is not specific to any gas or vapor.

A combustable gas detector should be used for the determination of combustable gas leaks in possible hazardous conditions.



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