

GOW-MAC[®]
INSTRUMENT CO.

Model 21-070 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
- Flash memory for saving various settings
 - alarm mode
 - alarm setpoint
 - alarm volume
 - peak hold delay
 - LED brightness
 - sensitivity
 - pump speed
- Miniature probe pinpoints exact leaks
- No messy soap solutions!
- No system contamination!



Model 21-070 Mini Gas Leak Detector

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

Sensitivity

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

Helium	1.0×10^{-5} cc/sec	0.012 ft ³ /yr
Argon	1.0×10^{-4} cc/sec	0.110 ft ³ /yr
CO ₂	1.1×10^{-4} cc/sec	0.123 ft ³ /yr
Refrigerant	1.1×10^{-4} cc/sec	0.123 ft ³ /yr
40% H ₂ /60% He <i>(fuel mixtures)</i>	1.0×10^{-5} cc/sec	0.012 ft ³ /yr

Ordering Information

Gas Leak Detector

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



Accessories

- Part No. 59-050 Carrying Case
- Testing to a NIST-traceable standard



NIST
National Institute of
Standards and Technology

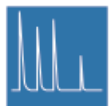
Specifications

Detector	<ul style="list-style-type: none"> 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"> 115 /230 V, 50/60 Hz, 4 W
Battery	<ul style="list-style-type: none"> Rechargeable Ni-MH, 3.6 V, 1650 mAh
Battery Life	<ul style="list-style-type: none"> Approximately 15 hours Recharged to 95% of capacity in 1 hr 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	<ul style="list-style-type: none"> Manual with drift elimination
Audio Signal	<ul style="list-style-type: none"> Audible alarm with adjustable setpoint and volume
Features	<ul style="list-style-type: none"> Flash memory for saving settings Microprocessor controlled
Operating Temp.	70 °F +/- 20 °F (21 °C +/- 11 °C)
Dimensions	5.25" L x 3.25" W x 1.81" H (13.34 x 8.26 x 4.60 cm)
Weight	<ul style="list-style-type: none"> Instrument: 1.05 lbs (0.48 kg) Charger: 0.61 lbs (0.28 kg)
Accessories	<ul style="list-style-type: none"> Carrying Case, p/n 59-050 Testing to a NIST-traceable standard

CAUTION

The Model 21-070 is NOT designed to be used to determine leaks of combustible gases. It uses air as its 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 combustible gas detector should be used for the determination of combustible gas leaks in possible hazardous conditions.



GOW-MAC
INSTRUMENT CO.
Analytical instruments since 1935



ISO 9001:2008
FM 58102
SB-GLD 0717

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