GOW-MAC®
INSTRUMENT CO.

Model 21-080 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 21-080 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 x 10^{-5} cc/sec are easily detected as are many others such as refrigerant leaks of 1.1 x 10^{-4} cc/sec and argon leaks of 1.0 x 10^{-4} cc/sec.

Easy to Operate

The Model 21-080 Mini Gas Leak Detector can be operated with little or no training.

- Turn the unit on
- Zero
- Probe for leaks

Features

- Ergonomic enclosure
- Tactile control on graphic overlay
- Highly sensitive
- User-selectable hi/lo sensitivity settings
- Flash memory for saving adjustable settings
  - ~ alarm mode
  - ~ alarm setpoint
  - ~ alarm volume
  - ~ peak hold delay
  - ~ backlight brightness
  - ~ sensitivity
  - ~ pump speed
- Miniature probe pinpoints exact leaks
- No messy soap solutions!
- No system contamination!



Model 21-080 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 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
Refrigerant	1.1 x 10^{-4} cc/sec	0.123 ft^3/yr

Ordering Information

Gas Leak Detector

- Model 21-080 Mini Gas Leak Detector: 100 V & 240 V



Accessories

- Testing to a NIST-traceable standard

NIST

National Institute of
Standards and Technology

Specifications

Detector	· Thermal conductivity cell with thermistors
Visual Readout	· LCD display featuring adjustable brightness · Peak hold with adjustable duration
Pump	· Diaphragm type · Pump speed control
Line Voltage	· 100 - 240 VAC, 7.2 W
Cell	· Three rechargeable Ni-MH, 1.2 V, 1900 mAh
Cell Life	· Approximately 20 hours · Recharged to 90% of capacity in 5 hrs. · Low battery indicator · Very low battery shutdown
Ranges	· Low: x1 High: x10 · Adjustable sensitivity for low and high ranges · Response time 3 seconds
Zero	· Auto zero with drift elimination and manual override
Audio Signal	· Audible alarm with adjustable set-point and volume
Features	· Flash memory for saving settings · Microprocessor controlled
Operating Temp.	· 70 °F +/- 20 °F (21 °C +/- 11 °C)
Dimensions	· 7.5" L x 4.1" W x 3.0" H (19.0 cm x 10.4 cm x 7.6 cm)
Weight	· Instrument: 1.2 lbs (0.52 kg) · Charger: 0.6 lbs (0.28 kg)
Accessories	· Testing to a NIST-traceable standard

CAUTION

The Model 21-080 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.

GOW-MAC INSTRUMENT CO.
Analytical instruments since 1935

BSI ANAB
ISO 9001:2015

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