



About the Mini Gas Leak Detector

AGC Instruments offers the Mini Gas Leak Detector (Model 21-072) which will easily find any gas that is leaking from a pressurised system. By using a thermal conductivity detector, this instrument will respond with speed to any gas mixture that has a thermal conductivity different to air.

With a high signal to noise ratio, via amplification we are able to deliver a maximum usable sensitivity. Helium leaks of 1×10^{-5} cc/sec are easily detected. Other gases include Refrigerant leaks of 1.1×10^{-4} cc/sec and Argon leaks of 1.0×10^{-4} cc/sec.

Principle of Operation

The probe is passed over the area to be checked, a sample is drawn in automatically into the thermal conductivity detector. A signal is registered on the meter when a leak is detected.

This clean and easy to use system ensures that no contamination is left that traditionally is caused when using a soap solution. By using the probe, it is easy to reach difficult locations within a system. The probe is small enough to find the exact location of a leak.

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Specifications:

- Detector Thermal Conductivity with thermistors
- Visual Readout: LED Bar Graph with adjustable brightness
- Peak hold with settable duration
- Pump: Diaphragm type with Pump speed control
- Voltage: 115/230V, 50/60Hz
- Battery: Rechargeable Ni-Cd, 7.36V/800mAh
- Battery Life: 7-8 hours, recharged to 95% of capacity in 1 hour
- Low Battery Indicator, Very low battery shutdown
- Ranges: Low x 1, High x 100
- Adjustable sensitivity for low & high ranges
- Time constant/Average
- Operating Temperature: $20^{\circ}\text{C} \pm 11^{\circ}\text{C}$
- Zero Manual with drift elimination
- Dimensions: 20.95 x 4.60 x 13.34 cm
- Weight: Instrument: 476g / Charger: 277g

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

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|------------------------------|-----------------------------|
| • Helium | 1.0×10^{-5} cc/sec |
| • Argon | 1.0×10^{-4} cc/sec |
| • CO ₂ | 1.1×10^{-4} cc/sec |
| • Refrigerant | 1.1×10^{-4} cc/sec |
| • 40% H ₂ /60% He | 1.0×10^{-5} cc/sec |

Caution:

The model 21-072 is not designed to be used to determine leaks of combustible gases.