

PRODUCT TECHNICAL BRIEF

LeakLab VacuumTest Vacuum-Decay Leak-Test Instrument

LeakLab VacuumTest Vacuum-Decay Leak-Test Instrument - LeakLab solutions for leak testing, vacuum systems and test equipment.

[Open the current source page](#)



Technical Data

PARAMETER	PUBLISHED VALUE / INFORMATION
Pressure principle	MEMS Pirani thermal-conductivity sensor with atmospheric reference in the source configuration
Nominal air or nitrogen range	100,000-1 Pa
Response time stated in source configuration	≤300 ms
Display units	Pa, Torr and mbar
Outputs	Logarithmic analog output and RS-485 Modbus RTU
Process connection	KF16
Supply / power	9-24 V DC nominal / ≤1.2 W
Product Label	Promotion

Technical and Project Information

Pressure-rise instrument for testing evacuated vessels and vacuum systems over time. It records pressure, applies the entered test volume and calculates total gas load; the method does not by itself distinguish real leaks from outgassing or trapped volumes.

VacuumTest monitors an evacuated and isolated object and calculates gas load from the pressure increase over a defined interval. It is intended for vacuum-retention tests, pump-down diagnostics, drying and process checks.

For a constant volume and approximately uniform temperature, total gas load is estimated from $Q = V \cdot \Delta p / \Delta t$. The result includes leakage, outgassing, permeation, valve conductance and temperature effects. Separating these mechanisms requires a validated procedure and often additional tests.

Pirani indication is gas-dependent. Enter the actual isolated volume, stabilize temperature, document valve timing and verify the pressure channel over the test range before applying a pass/fail limit.

- Leak Detectors Leak-Test Systems Portable Helium Leak Detectors Pressure-Change Leak-Test Instruments Helium Mass-Spectrometer Leak Detectors
- Portable Helium Leak Detectors
- Pressure-Change Leak-Test Instruments
- Helium Mass-Spectrometer Leak Detectors
- Helium Reference Leaks
- Scanning Electron Microscopes
- Leak-Detector Accessories

WORLDWIDE PROJECT CONTACT

Send the test object or system, operating conditions, target sensitivity or pressure range, applicable standard, destination country, quantity and schedule. LeakLab will review the project scope.

mail@leaklab.org

Regarding: LeakLab VacuumTest Vacuum-Decay Leak-Test Instrument

Specifications, standards, verification scope, availability and commercial terms must be confirmed for the exact configuration and destination jurisdiction before order or project acceptance.