

PRODUCT TECHNICAL BRIEF

Meradat PMI-2 Ionization Vacuum Sensor

Meradat PMI-2 Ionization Vacuum Sensor - LeakLab solutions for leak testing, vacuum systems and test equipment.

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Technical Data

PARAMETER	PUBLISHED VALUE / INFORMATION
Measurement principle	Hot-cathode ionization
Measurement range	1.3×10^{-5} to 1.3×10^{-1} Pa
Permissible error stated in source record	$\pm 35\%$ from 1.0×10^{-4} to 5.0×10^{-2} Pa; $\pm 50\%$ in the remaining stated regions
Compatible controller	Meradat-VIT19IT2 and applicable equivalent instruments
Connection	Glass body with 15 mm mushroom-type stem; suitable adapter required
Connection cable	KS-PMI2-L, typically 2 m or 5 m; confirm supply scope
Suggested automatic enable threshold	Below 0.13 Pa with the recommended thermal-sensor pair
Suggested automatic disable threshold	Above 0.27 Pa with the recommended thermal-sensor pair
Degassing limit stated in source record	Do not degas above 1.0×10^{-2} Pa

Technical and Project Information

Glass-bodied ionization sensor for high-vacuum measurement from 1.3×10^{-5} to 1.3×10^{-1} Pa with the Meradat-VIT19IT2 or another compatible controller. It must be enabled only after safe preliminary evacuation and protected from overpressure and contamination.

The PMI-2 is a primary ionization transducer for high-vacuum measurement. Electrons ionize residual-gas molecules and the resulting ion current is converted into a pressure value by a compatible controller.

Enabling an ionization sensor at excessive pressure can sharply reduce filament life. A correctly commissioned thermal channel and hardwired or validated controller logic should prevent unsafe operation. Switch off the ionization channel before venting.

The glass envelope must be protected from shock, bending load and contamination. Pressure readings are gas-dependent, and process-specific correction or calibration may be required.

The technical infographic, video and slide deck from the source page are intentionally omitted. Confirm the adapter, cable, controller revision, automatic protection logic, calibration and replacement-filament policy before ordering.

- Helium Reference Leaks

- Scanning Electron Microscopes
- Vacuum Gauges ASAIR Vacuum Gauges CBVAC Vacuum Gauges KYKY Vacuum Gauges Meradat VIT Vacuum Gauges Quadrupole Mass Spectrometers Vacuum Gauges for Cryogenic Vessels
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- Meradat VIT Vacuum Gauges
- Quadrupole Mass Spectrometers
- Vacuum Gauges for Cryogenic Vessels
- 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: Meradat PMI-2 Ionization Vacuum Sensor

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