

PRODUCT TECHNICAL BRIEF

Meradat-VIT19IT2 Dual-Channel Thermal and Ionization Vacuum Gauge

Meradat-VIT19IT2 Dual-Channel Thermal and Ionization Vacuum Gauge - LeakLab solutions for leak testing, vacuum systems and test equipment.

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Technical Data

PARAMETER	PUBLISHED VALUE / INFORMATION
Measurement channels	1 thermal and 1 ionization
Maximum combined range	1.3×10^{-5} to 1.0×10^5 Pa, sensor-dependent
Supported thermal sensors	SK-TP4, PMT-2, PMT-4M, SK-TS6 and PMT-6-3 / PMT-6-3M-1
Supported ionization sensors	PMI-2, SK-I2 and PMI-10-2 as stated for applicable instrument revisions
PMI-2 / SK-I2 range	1.3×10^{-5} to 1.3×10^{-1} Pa
PMI-10-2 range	1.3×10^{-3} to 1.3×10^2 Pa
Display	320 × 240 graphical LCD; approximately 120 × 90 mm viewing area
Ionization-sensor protection	Automatic protection through a discrete input and configured switching logic
Relay outputs	4 in the selected catalog configuration; normally open 5 A and normally closed 3 A at 230 V stated in source record
Analog output	0-20 mA; load $\leq 500 \Omega$
Communications	RS-485, Modbus ASCII/RTU
Archive	4 MB in the selected configuration
Power	230 V, 50 Hz; ≤ 45 VA in the source configuration
Enclosure	Approximately 230 × 137 × 107 mm; panel cutout 222 × 127 mm; weight ≤ 2.5 kg

Technical and Project Information

Dual-channel controller for continuous vacuum measurement with one thermal-sensor channel and one ionization-sensor channel. This 4-relay / 1-analog-output / RS-485 / 4 MB configuration covers up to 1.3×10^{-5} to 1.0×10^5 Pa, depending on the selected sensor pair.

Meradat-VIT19IT2 Dual-Channel Vacuum Gauge

The Meradat-VIT19IT2 combines one thermal channel for rough and medium vacuum with one ionization channel for high vacuum. The selected sensor pair determines the actual pressure range, accuracy and safe channel-switching thresholds.

The relay outputs can provide alarms and process interlocks, while the current output and Modbus connection transmit pressure to a control system. Sensor protection and switching logic must be commissioned for the actual thermal/ionization pair so that the high-vacuum sensor cannot operate above its safe pressure.

The source record identifies Russian State Register entry No. 41616-09, procedure MI 140-89 and a one-year verification interval. This is jurisdiction-specific; confirm the current instrument revision, metrology status and acceptance in the destination country.

technical infographics, video and slides from the source page are intentionally omitted. Confirm both sensors, cables, relay count and contact rating, analog output, archive capacity, Modbus documentation and verification scope 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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- 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-VIT19IT2 Dual-Channel Thermal and Ionization Vacuum Gauge

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