

PRODUCT TECHNICAL BRIEF

ASAIR AGP4000 Wide-Range Pirani and Cold-Cathode Vacuum Gauge

ASAIR AGP4000 Wide-Range Pirani and Cold-Cathode Vacuum Gauge - LeakLab solutions for leak testing, vacuum systems and test equipment.

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Technical Data

PARAMETER	PUBLISHED VALUE / INFORMATION
Measurement principle	Pirani plus cold-cathode ionization
Measurement range	1×10^{-6} to 1×10^5 Pa for nitrogen or air
Accuracy stated in source documentation	$\pm 30\%$ of reading for nitrogen
Repeatability stated in source record	$\pm 5\%$ of reading for nitrogen
Analog output	0-10 V; obtain the transfer function for the supplied revision
Digital interface	RS-485, Modbus RTU
Display	Color TFT-LCD; selectable Pa, Torr and mbar units
Supply	15-30 V DC
Power consumption	≤ 6 W in the source record
Vacuum connection	KF25
Process-side materials stated in source record	304 and 431 stainless steel, with an electropolished surface
Operating temperature	+5 to +55 °C
Product Label	Bestseller

Technical and Project Information

Combined Pirani and cold-cathode gauge for pressure monitoring from 1×10^{-6} to 1×10^5 Pa in air or nitrogen. The AGP4000 includes a color TFT display, 0-10 V analog output, RS-485 Modbus RTU, 15-30 V DC supply and a KF25 connection.

ASAIR AGP4000 Wide-Range Vacuum Gauge

The AGP4000 combines a continuously operating Pirani channel for rough and medium vacuum with a cold-cathode ionization channel for high vacuum. Automatic channel management provides one pressure reading across the stated range. The instrument is intended for process monitoring rather than reference metrology.

Typical applications include coating and semiconductor equipment, vacuum furnaces, drying and degassing systems, analytical instruments and research chambers. Pirani response is gas-dependent, while cold-cathode readings and ignition behavior also depend on gas, contamination and installation conditions.

Confirm the exact analog-output curve, RJ45 pinout, Modbus map, cable, power supply, switch-over behavior and calibration documentation before integration. Keep the sensing volume clean and follow the manufacturer instructions for mounting, high-voltage operation and service.

- 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: ASAIR AGP4000 Wide-Range Pirani and Cold-Cathode 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.