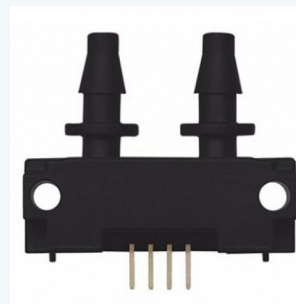


PRODUCT TECHNICAL BRIEF

ADP910 Digital Differential Pressure Sensor, ± 500 Pa

ADP910 Digital Differential Pressure Sensor, ± 500 Pa - LeakLab solutions for leak testing, vacuum systems and test equipment.

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Technical Data

PARAMETER	PUBLISHED VALUE / INFORMATION
Measurement range	-500 to +500 Pa
Supply	3.2 to 5.5 V DC
Current consumption	≤ 12 mA
Accuracy stated in source record	$\pm 3\%$ of current reading
Repeatability	$\pm 0.5\%$ of current reading
Zero error	0.3 Pa
Response time	< 2 ms
Annual zero drift	< 0.05 Pa
Interface	I ² C: SDA, SCL, VDD and GND
Compensated operating-temperature range	0 to +50 °C
Temperature-measurement range	-40 to +85 °C
Compatible media stated in source record	Non-condensing air, nitrogen and oxygen
Dimensions	29 × 18.4 × 10.2 mm

Technical and Project Information

Compact ADP910 digital differential pressure sensor for -500 to +500 Pa with an I²C interface. The source record states $\pm 3\%$ of reading accuracy, < 2 ms response time and operation with non-condensing air, nitrogen or oxygen. Confirm the exact transfer function, port configuration, calibration and application approvals before integration.

ADP910 Digital Differential Pressure Sensor with I²C

The ADP910 measures small differential pressures using a thermal-flow sensing principle and provides a digital I²C output. Two barbed pneumatic ports and a compact package support integration into embedded equipment.

Typical applications include HVAC airflow control, filter monitoring, gas appliances, laboratory equipment and embedded differential-pressure measurement. Medical, oxygen, combustion and safety-related applications require confirmation of the exact sensor variant and all applicable approvals.

Use the required 0.1 μ F external supply decoupling and follow the manufacturer's port orientation, pressure limits and I²C timing requirements. Confirm the digital transfer function, I²C address, sampling mode, overpressure rating, media compatibility, calibration and connector or PCB footprint before design-in.

- 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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- 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: ADP910 Digital Differential Pressure Sensor, ± 500 Pa

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