

8121 Air pressure sensor



POSSIBLE APPLICATIONS

- Building technology
- Industrial applications
- Weather stations

Absolute pressure

is measured in an inexpensive, practical, and robust standard housing. The technical design allows for on-site measurement range switching and output signal selection. This universally applicable sensor is the right solution for price-conscious customers. It is particularly notable for its simple commissioning and low maintenance requirements.

- Cost-effective
- OEM variant with three operating modes
- For use with data loggers in power-saving mode (e.g., solar operation)
- A device with two pressure measuring ranges and three standard outputs; adjustable via jumpers



PRODUCT OVERVIEW

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Professional Line	8121
Ident-No.	00.08121.110002: 500...1100 hPa 00.08121.100002: 600...1100 hPa
Measuring ranges	500...1100 hPa; 600...1100 hPa; switchable to 800...1100 hPa
Accuracy	± 1 hPa in the range $-10...+60$ °C; $< \pm 2$ hPa in the range $-20...-10$ °C
Resolution	0.1 hPa
Long-term stability	Typically -1 mbar over 12 months
Output	0...20 mA; 4...20 mA; 0...2 V - selectable
Areas of application	Altitude 0...4000 m; temperature $-20...+70$ °C; humidity 0...99 % RH.
Supply voltage	12...30 VDC (current output); 5...30 VDC (voltage output)
Power consumption	< 30 mA at output 0(4)...20 mA; < 4 mA at output 0...2 VDC; at 1000 Ω load resistance
Measuring elements	Piezoresistive pressure measuring cell
Structure	Wall mounting
Dimensions	130 x 80 x 60 mm
Housing	Polycarbonate; RAL 7035 (light gray); 1 cable gland; 1 pressure equalization
Protection class	IP66
Weight	0.3 kg with cable
Cable	2 m connection cable; 4-pin

As of May 27, 2026