Digital sensor for differential pressure FDAD12P with ALMEMO® D6 connector



- Digital sensor for positive and negative differential pressures with high accuracy
- Especially for very low pressures
- For air / non-aggressive gases
- Particularly suitable for industrial applications, clean rooms or building automation
- Compact housing with hose connection
- 1 measuring channel programmed (ex works): Differential pressure in Pa or mbar

General features and accessories, ALMEMO® D6 sensors:
see chapter ALMEMO® Measuring instruments

Technical Data

Measuring principle:	Piezoresistive effect
Measured medium:	Non-aggressive gases
Measuring range:	0 … 0.3 - 1000 mb (uni- or bidirectional)
Overall accuracy:	1.0 % of final value (Linearity, hysteresis, repetition error) Optional: 0.5 % of final value or for measuring ranges ≥ 1000 Pa 0.2 % of final value
Nominal temperature:	23 °C ±2K
Temperature drift:	≤ 0.03 % of final value / K
Long term stability:	≤ 0.5 % of final value / year

	Temperature	Air humidity (non-condensing)
Operating conditions:	10 °C … 50 °C	≤ 85 % RH
Storage conditions:	-10 °C … 70 °C	≤ 85 % RH
Housing dimensions:	112 x 88 x 46 mm (W x H x D)	
Housing safety class:	IP65	
Pressure terminal:	Ø 6.6 x 10 mm	
Wall Mounting:	Mounting on a vertical, smooth surface Mounting in a horizontal position with process connections facing downwards	
ALMEMO® D6 connector		
Accuracy:	± 2 digits	
Supply voltage:	Via ALMEMO® device 6 … 12V DC	
Current consumption:	approx. 40 mA	
Connecting cable:	PVC cable, 2 m, permanently connected	

11/2025 • We reserve the right to make technical changes.

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Accessories

	Order no.
1 set of silicone hoses black / colorless, 2 meters	**ZB2295S**
Silicone hose, black, per meter	**ZB2295SSL**
Silicone hose, colorless, per meter	**ZB2295SFL**

Options

	Order no.
Accuracy 0.5 % of final value	**OD0D12G5**
Accuracy 0.2 % of final value for measuring ranges ≥ 1000 Pa	**OD0D12G2**

Variants

Digital differential pressure sensor with 2 m connection cable with ALMEMO® D6 connector

Pressure range	Resolution	Overload	Order no.
0 ... +30 Pa	0.01 Pa	7000 Pa	**FDAD12P03U**
-30 ... +30 Pa	0.01 Pa	7000 Pa	**FDAD12P03B**
0 ... +50 Pa	0.01 Pa	7000 Pa	**FDAD12P05U**
-50 ... +50 Pa	0.01 Pa	7000 Pa	**FDAD12P05B**
0 ... +100 Pa	0.1 Pa	7000 Pa	**FDAD12P10U**
-100 ... +100 Pa	0.1 Pa	7000 Pa	**FDAD12P10B**
0 ... +250 Pa	0.1 Pa	7000 Pa	**FDAD12P12U**
-250 ... +250 Pa	0.1 Pa	7000 Pa	**FDAD12P12B**
0 ... +500 Pa	0.1 Pa	10000 Pa	**FDAD12P15U**
-500 ... +500 Pa	0.1 Pa	10000 Pa	**FDAD12P15B**
0 ... +1000 Pa	1 Pa	10000 Pa	**FDAD12P20U**
-1000 ... +1000 Pa	1 Pa	10000 Pa	**FDAD12P20B**
0 ... +2500 Pa	1 Pa	30000 Pa	**FDAD12P22U**
-2500 ... +2500 Pa	1 Pa	30000 Pa	**FDAD12P22B**
0 ... +5000 Pa	1 Pa	80000 Pa	**FDAD12P25U**
-5000 ... +5000 Pa	1 Pa	80000 Pa	**FDAD12P25B**
0 ... +100 mbar	0.1 mbar	800 mbar	**FDAD12P30U**
-100 ... +100 mbar	0.1 mbar	800 mbar	**FDAD12P30B**
0 ... +250 mbar	0.1 mbar	1500 mbar	**FDAD12P32U**
-250 ... +250 mbar	0.1 mbar	1500 mbar	**FDAD12P32B**
0 ... +500 mbar	0.1 mbar	3000 mbar	**FDAD12P35U**
-500 ... +500 mbar	0.1 mbar	3000 mbar	**FDAD12P35B**
0 ... +1000 mbar	1 mbar	3000 mbar	**FDAD12P40U**
-1000 ... +1000 mbar	1 mbar	3000 mbar	**FDAD12P40B**

DAkkS accredited calibration or factory calibration KD9xxx pressure for sensor or measuring chain (sensor + device), see chapter „Calibration certificates“. DAkkS accredited calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.