

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

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

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 ± 2 K
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:	$\varnothing 6.6$ 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

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

OD0D12G5Accuracy 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.