Digital atmospheric pressure sensor FDAD 12 SA, for barometric pressure Integrated in ALMEMO® D6 plug



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

Special features
- Digital atmospheric pressure sensor with temperature compensation
- Very accurate over a wide temperature range
- The value measured for atmospheric pressure can also be used to compensate other sensors on the ALMEMO® device (programming comment *P).
- Compact design, without pressure connection sleeve
- Can be connected directly to the measuring instrument.
- One measuring channel is programmed (at our factory).
- Atmospheric pressure (mbar, AP, p)

Technical Data

Digital atm. pressure sensor (integrated in ALMEMO® D6 plug)	
Measuring range	300 to 1100 mbar
Accuracy	±2.5 mbar in the range 700 to 1100 mbar at 23 °C ±5 K
Operating range	-10 to +60 °C 10 to 90 % RH non-condensing
Dimensions	62 x 20 x 7.6 mm

ALMEMO® D6 plug	
Refresh rate	1 second for all channels
Supply voltage	6 to 13 VDC
Current consumption	4 mA

Variants (including manufacturer's test certificate)	**Order no.**
Digital atmospheric pressure sensor for barometric pressure, integrated in ALMEMO® D6 plug	**FDAD12SA**

DAkkS accredited calibration or factory calibration KD92xx atmospheric pressure for digital sensor, see chapter „Calibration certificates“. DAkkS accredited calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.

Pressure measuring connector for barometric pressure FDA 612 SA



- Compact design - can be plugged directly onto measuring instrument.
- Piezo-resistive pressure sensor - ensures high measuring accuracy.

Technical Data:

Measuring range	700 to 1050 mbar (total range 0 to 1050 mbar)
Overload capacity	Maximum 1.5 times final value
Accuracy	±0.5 % of final value
Nominal temperature	25 °C
Temperature drift	<±1 % final value at 0 to +60 °C
Hose terminals	Ø 5 mm, 12 mm long

Sensor material	aluminum, nylon, silicone, silica gel, brass
Operating range	-10 to +60 °C, 10 to 90 % RH, non-condensing
Dimensions	90 x 20 x 7.6 mm

Accessories	**Order no.**		**Order no.**
Connecting cable, 0.2 meters	**ZA9060AK1**	Extension cable, 5 meters	**ZA9090VKC5**
Extension cable, 2 meters	**ZA9060VK2**		

Variants (including manufacturer's test certificate)	**Order no.**
Pressure measuring connector for barometric pressure with pressure terminal sleeve	**FDA612SA**

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.

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

Pressure measuring connector for differential pressure FDA 612 SR, FDA 602 S2K



- New compact design - can be plugged directly onto measuring instrument.
- Piezo-resistive pressure sensor - ensures high meas. accuracy.

! Advisory note when used in conjunction with ALMEMO® 2890, 5690, 5790, 8590, 8690: The new ALMEMO® pressure measuring connector is very slightly higher (8.8 mm). As a result adjacent input sockets on the ALMEMO® device may be partly covered. However, the 1st input socket can always be used without restriction. Or, alternatively, the ALMEMO® pressure measuring connector can be plugged in at any input socket using connecting cable ZA9060AK1.

Technical Data

Overload capacity	
FDA612SR	max. 1.5 times final value
FDA602S2K	maximum 250 mbar
Accuracy (zero-pt adjusted)	±0.5 % of final value in range 0 to positive final value
Common mode pressure	FDA602S2K max. 700 mbar FDA612SR max. 3 bar
Nominal temperature	25 °C
Temperature drift	
FDA612SR	< ±1.5 % of final value
compensated temperature range	0 to +60 °C
FDA602S2K	< ±2 % of final value
compensated temperature range	-10 to +60 °C
Operating range	-10 to +60 °C, 10 to 90 % RH, non-condensing
Dimensions	74 x 20 x 8.8 mm
Hose terminals	Ø 5 mm, 12 mm long
Sensor material	aluminum, nylon, silicone, silica gel, brass

Accessories	Order no.		Order no.
Connecting cable, 0.2 meters	**ZA9060AK1**	Extension cable, 5 meters	**ZA9090VKC5**
Extension cable, 2 meters	**ZA9060VK2**		

Variants (including manufacturer's test certificate)	Order no.
(including one set of silicone hoses, 2 meters) Pressure measuring connector for differential pressure Range ±1000 mbar	**FDA612SR**
Range ±250 Pa (independent of position)	**FDA602S2K**
Range ±1250 Pa see chapter 09 Flow measurement: Pitot tube measurement	**FDA602S1K**
Range ±6800 Pa see chapter 09 Flow measurement: Pitot tube measurement	**FDA602S6K**

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.