

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



General features and accessories, ALMEMO® D6 sensors
see page 01.08

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)		ALMEMO® D6 plug	
Measuring range	300 to 1100 mbar	Refresh rate	1 second for all channels
Accuracy	±2.5 mbar in the range 700 to 1100 mbar at 23 °C ±5 K	Supply voltage	6 to 13 VDC
Operating range	-10 to +60 °C 10 to 90 % RH non-condensing	Current consumption	4 mA
Dimensions	62 x 20 x 7.6 mm		

Variants (including manufacturer's test certificate)

Digital atmospheric pressure sensor for barometric pressure, integrated in ALMEMO® D6 plug

Order no.
FDAD12SA

DAkKS or factory calibration KD92xx atmospheric pressure for digital sensor (see chapter Calibration certificates).
DAkKS 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)	Sensor material	aluminum, nylon, silicone, silica gel, brass
Overload capacity	Maximum 1.5 times final value	Operating range	-10 to +60 °C, 10 to 90% RH, non-condensing
Accuracy	±0.5 % of final value	Dimensions	90 x 20 x 7,6 mm
Nominal temperature	25 °C		
Temperature drift	<±1 % final value at 0 to +60 °C		
Hose terminals	Ø 5 mm, 12 mm long		

Accessories

	Order no.		Order no.
Connecting cable, 0.2 meters	ZA9060AK1	Extension cable, 4 meters	ZA9060VK4
Extension cable, 2 meters	ZA9060VK2		

Variants (including manufacturer's test certificate)

Pressure measuring connector for barometric pressure with pressure terminal sleeve

Order no.
FDA612SA

Pressure

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

Accessories	Order no.	Order no.
Connecting cable, 0.2 meters	ZA9060AK1	Extension cable, 4 meters
Extension cable, 2 meters	ZA9060VK2	ZA9060VK4

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

