

# Pressure

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



**General features and accessories, ALMEMO® D6 sensors**  
see page 15

### 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**

DAkkS or factory calibration KD9xxx pressure for sensor or measuring chain (sensor + device), 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 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	< ±2 % of final value
FDA602S2K	maximum 250 mbar	compensated temperature range -10 to +60 °C	
Accuracy (zero-pt adjusted)	±0.5% of final value in range 0 to positive final value		Operating range
Common mode pressure	FDA602S2K max. 700 mbar	FDA612SR max. 3 bar	-10 to +60 °C, 10 to 90% RH, non-condensing
Nominal temperature	25 °C		Dimensions
Temperature drift			Hose terminals
FDA612SR	< ±1.5 % of final value		Ø 5 mm, 12 mm long
compensated temperature range	0 to +60 °C		Sensor material
			aluminum, nylon, silicone, silica gel, brass

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