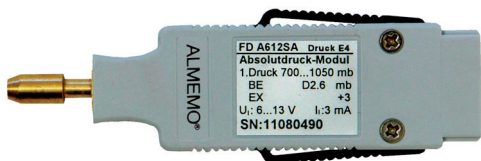



PRESSURE

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.

 New digital atmospheric pressure sensor FDAD 12 SA see page 11.23




Accessories

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

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.

Accessories

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

Variants (including manufacturer's test certificate)

Pressure measuring connector for barometric pressure with pressure terminal sleeve

Order no FDA612SA

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 +70 °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

Variants (including manufacturer's test certificate)
(including one set of silicone hoses, 2 meters)

Pressure measuring connector for differential pressure

Range ±1000 mbar Order no. FDA612SR

Range ±250Pa (independent of position) Order no. FDA602S2K

Range ±1250 Pa or ±6800 Pa see page 10.06

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
Nominal temperature	25 °C
Temperature drift	FDA612SR < ±1.5 % of final value compensated temperature range 0 to +70 °C FDA602S2K < ±2 % of final value compensated temperature range -25 to +85 °C
Operating range	-10 to +60 °C, 10 to 90% RH, non-condensing
Dimensions	New 74 x 20 x 8.8 mm
Hose terminals	Ø 5 mm, 12 mm long
Sensor material	aluminum, nylon, silicone, silica gel, brass

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



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 designation *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)

General features and accessories, ALMEMO® D6 sensors
see ALMEMO® D6 overview

Variants (including manufacturer's test certificate)

Digital atmospheric pressure sensor for barometric pressure
Integrated in ALMEMO® D6 plug **Order no. FDAD12SA**

Technical data

Digital atmospheric pressure sensor (integrated in ALMEMO® D6 plug)

Measuring range	700 to 1100 mbar
Accuracy	±2.5 mbar (at 0 to +65 °C)
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

01/2012 We reserve the right to make technical changes.

ALMEMO® D6 overview

ALMEMO® D6 sensor - with outstanding features

- ▶ This digital ALMEMO® D6 sensor can be connected to any ALMEMO® measuring instrument without in any way affecting its measuring accuracy. The measuring accuracy of the whole system is determined exclusively by the A/D converter incorporated in the ALMEMO® D6 sensor.
- ▶ This digital ALMEMO® D6 sensor is calibrated without involving the ALMEMO® measuring instrument (DKD / factory) and can be replaced or exchanged as and when convenient.
- ▶ The connecting cable for this digital ALMEMO® D6 sensor can be extended using pluggable extension cables quickly and easily and without any line losses. (see "General accessories for ALMEMO® D6 sensors") These digital extension cables have no effect on measuring accuracy and offer high transmission reliability.
- ▶ The digital ALMEMO® D6 sensor can - via USB - be connected directly to a PC or - via Ethernet - incorporated in an ALMEMO® network. Measured values can be processed directly using the WinControl software package.
- ▶ These digital ALMEMO® D6 sensors can be configured (e.g. measuring range selection) directly on the PC using USB adapter cable ZA1919AKUV. (see "General accessories for ALMEMO® D6 sensors")

General accessories

ALMEMO® extension cable, length 2 meters

Order no. ZA9060VK2

ALMEMO® extension cable, length 4 meters

Order no. ZA9060VK4

ALMEMO® extension cable, length 10 meters (For other lengths up to 100 meters, see page XREF)

Order no. ZA9090VKC10

ALMEMO® USB adapter cable, length 1.5 meters

For connecting an ALMEMO® D6 sensor directly to the USB port on a PC (power supply via USB)

Order no. ZA1919AKUV

ALMEMO® Ethernet adapter cable, total length 3 meters

For connecting an ALMEMO® D6 sensor directly to an Ethernet PC network, including mains unit

Order no. ZA5045AKFBV

Digital temperature / atmospheric humidity sensor

FHAD 46-0 and FHAD 46-2, with ALMEMO® D6 plug



Measuring ranges: Temperature, relative humidity, dew point, absolute humidity, mixture, enthalpy, vapor pressure

Digital thermoanemometer

FVAD 35 THx with ALMEMO® D6 plug,

new: With integrated atmospheric pressure sensor, for automatic pressure compensation



Measuring ranges: Temperature, air flow, atmospheric pressure

High-precision digital temperature / atmospheric humidity sensor

FHAD 36 Rx, with ALMEMO® D6 plug,

new: With integrated atmospheric pressure sensor, for automatic pressure compensation



Measuring ranges: Temperature, relative humidity, atmospheric pressure, dew point, absolute humidity, mixture, enthalpy, vapor pressure

Digital atmospheric pressure sensor

FDAD 12 SA, for barometric pressure with ALMEMO® D6 plug



Measuring ranges: Barometric pressure

Digital psychrometer

FNAD 46-3 with ALMEMO® D6 plug,

new: With integrated atmospheric pressure sensor, for automatic pressure compensation



Measuring ranges: Dry temperature, humid temperature, relative humidity, atmospheric pressure, dew point, absolute humidity, mixture, enthalpy, vapor pressure

Digital heat flow plate

FQADx, with ALMEMO® D6 plug

new: With integrated temperature sensor for automatically correcting the heat flow plate's temperature coefficient



Measuring ranges: Plate's mean temperature, heat flow