

## Differential pressure and Pitot tube measurement Measuring connector FDA 602 S1K / S6K



Measuring connector FDA602S1K / S6K

- Pressure measuring connector in compact design for flow measurement with Pitot tubes
- Fitting for connecting hose between Pitot tube and pressure measuring connector
- Pressure measuring connector can be plugged directly onto the measuring instrument.

### Technical data

Overload capacity	Maximum three times final value	Operating range	-10 to +60 °C, 10 to 90% RH, non-condensing
Max. common mode pressure	700 mbar	Dimensions	74 x 20 x 8.8 mm
Accuracy (zero-pt adjusted)	±0.5% of final value in range 0 to positive final value	Hose terminals	Ø 5 mm, 12 mm long
Nominal temperature	25 °C	Sensor material	aluminum, nylon, silicone, silica gel, brass
Temperature drift	< ±1.5 % of final value		
Compensated temp. range	0 to +70 °C		

! 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.

! On ALMEMO® devices to obtain precise measured results in m/s the wind tunnel temperature can be entered in the -50 to +700 °C range for compensation purposes.

### Accessories

### Order no.

**new** ALMEMO® pressure measuring connector for barometric pressure 700 to 1100 mbar, without pressure terminal sleeve  
Technical data see page 11.12

**FDAD12SA**

including programming for automatic atmospheric pressure compensation (comment \*P)

**OA9000PK**

(variant with pressure terminal sleeve, see page 10.10)

Connecting cable, 0.2 meters

**ZA9060AK1**

Extension cable, 2 meters

**ZA9060VK2**

1 set of silicone hoses

**ZB2295S**

black / colorless, 2 meters

**ZB2295SSL**

Silicone hose, black, per meter

**ZB2295SFL**

Silicone hose, colorless, per meter

### Variants (including manufacturer's test certificate)

### Order no.

(including one set of silicone hoses, 2 meters)

Measuring ranges ±1250 Pa, Differential pressure (1 to 40 m/s), Measured variables: m/s, Pa,  
Measuring connector, independent of position

**FDA602S1K**

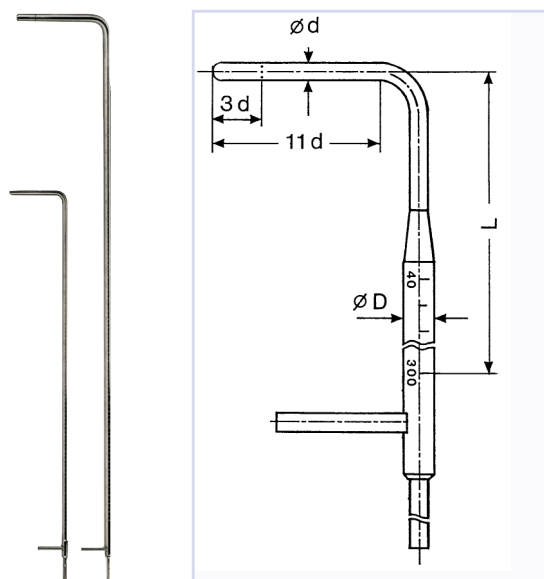
Measuring ranges ±6800 Pa Differential pressure (2 to 90 m/s) Measured variables m/s, Pa,

**FDA602S6K**

Measuring connector, independent of position

DAkkS or factory calibration KV90xx, air flow, and KD90xx, 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.

## Pitot Tubes for Differential Pressure Sensors FDA602



- Prandtl Pitot tubes with hemispheric head.
- For measuring the dynamic pressure, the tip of the Pitot tube has an opening of  $0.3d$ .
- For measuring the static pressure, a total of 12 holes with  $0.1d$   $\varnothing$  have been arranged at a distance of  $3d$ .

! Mit ALMEMO® devices that have an option for entering factors can also be used to perform wind velocity measurements with cylindrical probes, according to VDEH. The cylindrical Pitot tubes have a probe-related coefficient of 1.7. By entering a factor of 0.767 in the range m/s this coefficient will be considered during the measurement.

### Option

Movable screw connection for brass Pitot tubes with shaft diameter x (6; 8; 10; 20mm)  
for steel Pitot tubes with shaft diameter x (6; 8; 10; 20mm)

### Order no.

ZB9912KMx  
ZB9912KVx

### Types and Technical Data:

Head Diameter (d)	Shaft Diameter (D)	Length	Tmax	Permiss. Dust	Material	Order no.
3 mm	6 mm	300 mm	150°C	none	Nickel-plated brass	<b>FD991233MS</b>
3 mm	6 mm	300 mm	300°C	none	Chrome-nickel steel	<b>FD991233VA</b>
5 mm	8 mm	400 mm	350°C	none	Nickel-plated brass	<b>FD991254MS</b>
5 mm	8 mm	400 mm	500°C	none	Chrome-nickel steel	<b>FD991254VA</b>
5 mm	8 mm	600 mm	350°C	none	Nickel-plated brass	<b>FD991256MS</b>
5 mm	8 mm	600 mm	500°C	none	Chrome-nickel steel	<b>FD991256VA</b>
8 mm	8 mm	400 mm	350°C	low	Nickel-plated brass	<b>FD991284MS</b>
8 mm	8 mm	400 mm	500°C	low	Chrome-nickel steel	<b>FD991284VA</b>
8 mm	8 mm	800 mm	350°C	low	Nickel-plated brass	<b>FD991288MS</b>
8 mm	8 mm	800 mm	600°C	low	Chrome-nickel steel	<b>FD991288VA</b>
10 mm	10 mm	800 mm	350°C	some	Nickel-plated brass	<b>FD991296MS</b>
10 mm	10 mm	800 mm	600°C	some	Chrome-nickel steel	<b>FD991296VA*</b>
10 mm	10 mm	1000 mm	350°C	some	Nickel-plated brass	<b>FD991297MS</b>
10 mm	10 mm	1000 mm	600°C	some	Chrome-nickel steel	<b>FD991297VA*</b>
10 mm	20 mm	1500 mm	350°C	some	Nickel-plated brass	<b>FD991298MS</b>
10 mm	20 mm	1500 mm	600°C	some	Chrome-nickel steel	<b>FD991298VA*</b>
20 mm	20 mm	2000 mm	350°C	more	Nickel-plated brass	<b>FD991299MS</b>
20 mm	20 mm	2000 mm	600°C	more	Chrome-nickel steel	<b>FD991299VA*</b>

\*) all VA Pitot tubes can be operated up to 700°C for a short period