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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
Max. common mode pressure	700 mbar
Accuracy (zero-pt adjusted)	±0.5% of final value in range 0 to positive final value
Nominal temperature	25 °C
Temperature drift	< ±1.5 % of final value
Compensated temp. range	0 to +70 °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

! 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 black / colorless, 2 meters	**ZB2295S**
Silicone hose, black, per meter	**ZB2295SSL**
Silicone hose, colorless, per meter	**ZB2295SFL**

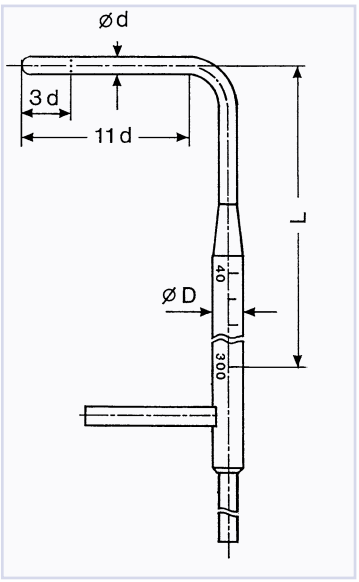
Variants (including manufacturer's test certificate)

	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, Measuring connector, independent of position	**FDA602S6K**

DAkkS / DKD or factory calibration KV90xx, air flow, and KD90xx, pressure, for sensor or measuring chain (sensor + device)
(see chapter „Calibration certificates")

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 Ø 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	Order no.
Movable screw connection for brass Pitot tubes with shaft diameter x (6; 8; 10; 20mm)	ZB9912KMx
for steel Pitot tubes with shaft diameter x (6; 8; 10; 20mm)	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	**FD991233MS**
3 mm	6 mm	300 mm	300°C	none	Chrome-nickel steel	**FD991233VA**
5 mm	8 mm	400 mm	350°C	none	Nickel-plated brass	**FD991254MS**
5 mm	8 mm	400 mm	500°C	none	Chrome-nickel steel	**FD991254VA**
5 mm	8 mm	600 mm	350°C	none	Nickel-plated brass	**FD991256MS**
5 mm	8 mm	600 mm	500°C	none	Chrome-nickel steel	**FD991256VA**
8 mm	8 mm	400 mm	350°C	low	Nickel-plated brass	**FD991284MS**
8 mm	8 mm	400 mm	500°C	low	Chrome-nickel steel	**FD991284VA**
8 mm	8 mm	800 mm	350°C	low	Nickel-plated brass	**FD991288MS**
8 mm	8 mm	800 mm	600°C	low	Chrome-nickel steel	**FD991288VA**
10 mm	10 mm	800 mm	350°C	some	Nickel-plated brass	**FD991296MS**
10 mm	10 mm	800 mm	600°C	some	Chrome-nickel steel	**FD991296VA***
10 mm	10 mm	1000 mm	350°C	some	Nickel-plated brass	**FD991297MS**
10 mm	10 mm	1000 mm	600°C	some	Chrome-nickel steel	**FD991297VA***
10 mm	20 mm	1500 mm	350°C	some	Nickel-plated brass	**FD991298MS**
10 mm	20 mm	1500 mm	600°C	some	Chrome-nickel steel	**FD991298VA***
20 mm	20 mm	2000 mm	350°C	more	Nickel-plated brass	**FD991299MS**
20 mm	20 mm	2000 mm	600°C	more	Chrome-nickel steel	**FD991299VA***

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

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