

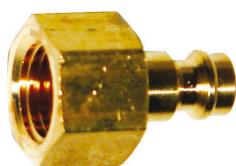
Pressure Transducer FDA 602 L



- Compact pressure sensors for industrial applications in liquid and gaseous substances.
- Piezo-resistive, flexibly suspended silicone measuring cell in an oil-filled, all-welded special steel enclosure.
- The stable mechanical construction provides a reliable protection for the measuring cell against the test substance and immunizes it against pressure peaks and vibrations.
- Available with three calibrations.
 Relative pressure: Pressure related to the environmental pressure.
 Absolute pressure: Pressure related to vacuum (0 bar)
 Overpressure: Pressure related to atm. pressure at manufacturing (approx. 1bar).

Technical Data:

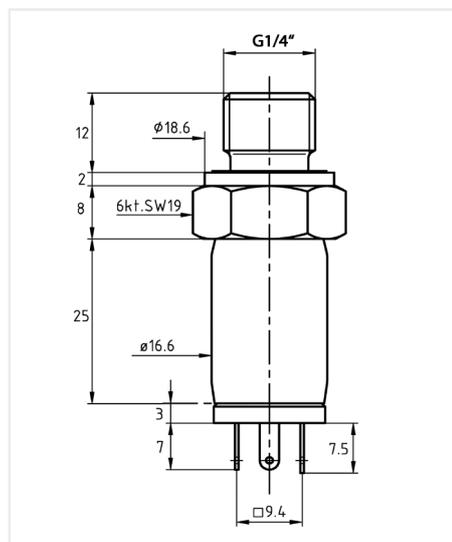
Overload	Two times final value	Power supply	6.5 to 15 VDC, consumption <4 mA via ALMEMO® connector
Output signal	0.2 to 2.2 V	Operating temperature	-40 to +100 °C
Accuracy class (linearity + hysteresis + reproducibility)	±0.5 % of final value	Pressure terminal	male thread G1/4" membrane not flush with front
Total error range		Material in contact with medium	Stainless steel DIN 1.4404/1.1135 External seal Viton
0 to +50 °C	±1.0 % of final value	Weight	approx. 50 g
-10 to +80 °C	±1.5 % of final value (linearity + hysteresis + reproducibility + temperature coefficients + zero-point + range tolerance)	Protective class	IP 65
Response time (0 to 99 %)	<5 ms		
Nominal conditions	22°C ±2 K, 10 to 90 % RH, non-condensing		



Quick-release coupling
nominal width 5
internal thread G1/4"



nominal width 7,2
internal thread G1/4"



Accessories

- PTFE sealing tape, -200 to +260 °C, width 10 mm, thickness 0.1 mm, roll of 12 meters
- Quick-release coupling, nominal width 5, up to 35 bar Connection internal thread G1/4", brass
- Quick-release coupling, nominal width 7.2, up to 35 bar connection internal thread G1/4", brass

Order no.

- ZB9000TB
- ZB9602N5
- ZB9602N7

Types: including ALMEMO® cable 1.5m long

- Measuring ranges relative pressure:**
- up to 2.5 bar **FDA602L3R**
 - up to 5 bar **FDA602L4R**
 - up to 10 bar **FDA602L5R**

- Measuring ranges absolute pressure:**
- up to 2.5 bar **FDA602L3A**
 - up to 5 bar **FDA602L4A**
 - up to 10 bar **FDA602L5A**

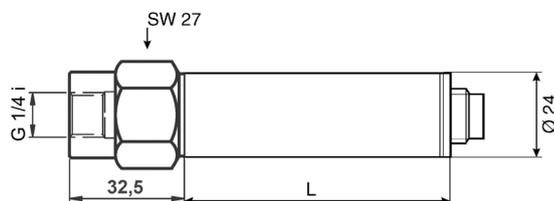
Measuring ranges overpressure:

- up to 25 bar **FDA602L2U**
- up to 50 bar **FDA602L3U**
- up to 100 bar **FDA602L4U**
- up to 500 bar **FDA602L6U**

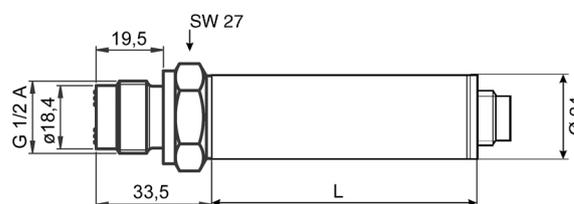
Pressure transducer for measuring the temperature of refrigerants see page 10.08.
 DAKKS / DKD or factory calibration KD9xxx pressure for sensor or measuring chain (sensor + device) (see chapter Calibration certificates)

Technical Data

Measuring cell:	piezo-resistive
Overload	Ranges 600 bar, i.e. 1.5 times the final value (minimum 3 bar, maximum 850 bar) Ranges >600 bar, 1500 bar
Output signal, power supply :	Standard 0 to 2 volts, feed 6.5 to 13 volts (from ALMEMO® device), current <4 mA Option : 0 to 10 volts, feed 15 to 30 volts, load >10 kilohms, current <4 mA Option : 0 to 20 mA, feed 9 to 33 volts, (>18 volts at load 500 ohms), current <25 mA Option : 4 to 20 mA, 2 conductors, feed 9 to 33 volts, (>18 volts at load 500 ohms), current <25 mA
Response time:	<1.5 ms / 10 to 90 % nominal pressure
Linearity:	Standard ± 0.25 % of final value Option : ± 0.1 % of final value for ranges 1 bar and up to 600 bar
Media temperature:	0 to +80°C, temperature comp.: 0 to +70°C option: -25 to +100°C, temperature comp.: -25 to +85°C -25 to +150°C, temperature comp.: -25 to +85°C
Temperature drift:	Zero-point $\leq \pm 0.04$ % of final value / °C for ranges >0.5 bar span $\leq \pm 0.02$ % of final value / °C for all ranges
Nominal temperature:	22°C ± 2 K, 10 to 90% rH non-condensing
Material:	housing, pressure connector, membrane: special steel 1.4435
Operat. environment/Sealing:	IP 67
Dimensions:	see drawing
Connecting threads:	Type 8214: internal thread G1/4", wrench SW 27 Option for absolute pressure: small flange KF16 or KF21 Type 8214 M: external thread G1/2", wrench SW 27 Other threads are available on request
Electrical connection	Flush-mounting connector, binder coupling 723, 5-pin
Weight:	approx.. 180 g



Type **FD 8214** standard version with internal thread G1/4"
L = 45 mm (L = 72 mm with option of medium temperature up to 150 °C with cooling ribs)



Type **FD8214M** membrane flush with front (welded with end of thread), internal thread G1/2" can be easily sterilized
L = 45mm
(L = 72 mm with option of medium temperature up to 150 °C with cooling ribs)

Accessories

Accessories	Order no.
PTFE sealing tape, -200 to +260 °C, width 10 mm, thickness 0.1 mm, roll of 12 meters	ZB9000TB
Quick-release coupling, nominal width 5, up to 35 bar Connection G1/4" external thread, brass	ZB8214N5

Accessories	Order no.
Quick-release coupling, nominal width 7.2, up to 35 bar Connection 1/4" external thread, brass	ZB8214N7

Quick-release coupling nominal width 5 external thread G1/4"



Quick-release coupling nominal width 7.2 external thread G1/4"