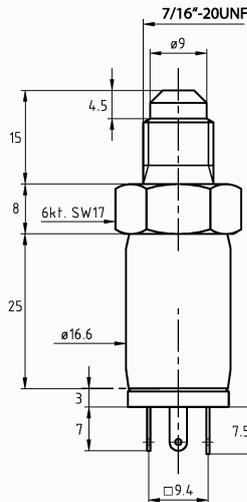


PRESSURE

Pressure transducer for measuring the temperature of refrigerants, absolute pressure FDA 602 LxAK



- ▶ 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 immunises it against pressure peaks and vibrations.
- ▶ Absolute pressure: pressure related to vacuum (0 bar).



Technical Data:

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

Types:

including ALMEMO® connecting cable, 1.5 m, and programming of a refrigerant measuring channel

Measuring ranges Absolute pressure (resolution 0.001 bar)

up to 10bar	Order no. FDA602L5AK
up to 30bar	Order no. FDA602L6AK
up to 50bar	Order no. FDA602L7AK

Option SB 0000 R2

The ALMEMO® Version V6 devices, (2590, 2690, 2890 8590, 8690, 5690) can be used for continuous temperature measurement (resolution 0.1K) with absolute pressure sensors (resolution 0.001 bar compulsory!). Both, pressure and temperature can be selected or continuously indicated and recorded.

Technical data for ALMEMO® option SB0000R2:

Refrigerant:	R22	R23	R134a	R404a	R404a
Pressure Range:	0 to 36 bar	0 to 49 bar	0 to 40,5 bar	0 to 32 bar	0 to 32 bar
Temperature Range:	-90°C to +79°C *	-100°C to +26°C *	-75°C to +101°C *	-60°C to +65°C *	-60°C to +65°C *
Operation point	dew-point	dew-point	dew-point	dew-point	boiling point
Refrigerant:	R407C	R407C	R410	R417A	R507
Pressure Range:	0 to 46 bar	0 to 46 bar	0 to 49 bar	0 to 27 bar	0 bis 37 bar
Temperature Range:	-50°C to +86°C *	-50°C to +86°C *	-70°C to +70°C *	-50°C to +70°C *	-70°C to +70°C *
Operating point	dew-point	boiling point	dew-point	dew-point	dew-point

*) The final temperature range results from the refrigerant data of the corresponding refrigerants. For pressure sensors with small pressure ranges the specified final temperature will only change. (linearisations for other refrigerants are available on request)

Order no. SB0000R2