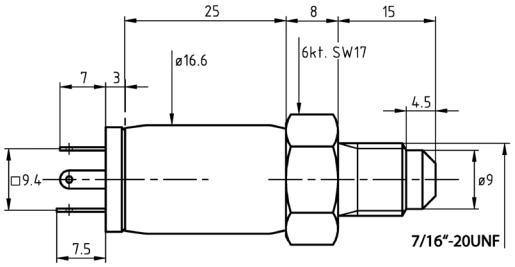
Pressure transducer for measuring the temperature of refrigerants FDA 602 LxAK



- 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 immunes 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 -10 to +80 °C (linearity + hysteresis + reproducibility + temperature coefficients + zero-point + range tolerance)	 ±1.0 % of final value ±1.5 % of final value
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

Calculation of the refrigerant temperature with device special version SB0000R2

The ALMEMO® Version V6 devices, (2590-2/-3S/-4S, 2690, 2890, 8590, 8690, 5690) can be used a 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:

Refigerant:	**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

Refigerant:	**R407C**	**R407C**	**R410A**	**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

*) Der Endtemperaturbereich ergibt sich aus den vorliegenden Daten der Kältemittel. Bei Druckgebern mit kleineren Druckbereichen ändert sich lediglich die angegebene Endtemperatur. (Linearisierungen für weitere Kältemittel auf Anfrage)

Geräte-Sonderausführung Kältemitteltemperatur für ALMEMO® Geräte V6
(Bitte beim Geräteneukauf mitbestellen bzw. vorhandenes Gerät zum Upgrade einschicken) **Order no. SB0000R2**

Types

Order no.

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	**FDA602L5AK**
up to 30bar	**FDA602L6AK**
up to 50bar	**FDA602L7AK**

DAkkS / DKD or factory calibration KD9xxx pressure for sensor or measuring chain (sensor + device) (see chapter Calibration certificates)