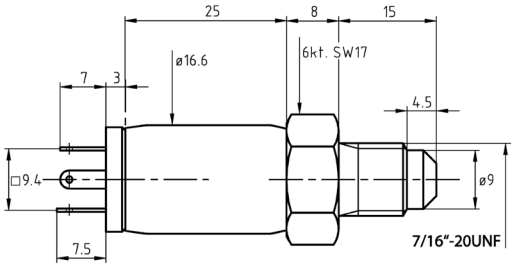
Pressure transducer for measuring the temperature of refrigerants FDA 602 LxAK



- 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
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 7/16“ 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
(LINEARIZATIONS FOR OTHER REFRIGERANTS ON REQUEST)

The ALMEMO® Version V6 devices, (2590-2/-3S/-4S, 2690, 2890, 8590, 8690, 5690) can be used for continuous temperature measurement (resolution 0.1 K) 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**	**R410A**	**R417A**	**R507**
Pressure Range:	0 to 46 bar	0 to 46 bar	0 to 49 bar	0 to 27 bar	0 to 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 is obtained from the data of the refrigerant.
For pressure transducer with smaller pressure ranges, the specified final temperature changes. (Linearizations for other refrigerants on request)

Special design refrigerant temperature for ALMEMO® devices V6
(Please order when buying new devices or send it to upgrade existing device) **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 10 bar	**FDA602L5AK**
up to 30 bar	**FDA602L6AK**
up to 50 bar	**FDA602L7AK**
Measuring range up to 100 bar and up to 150 bar on request	

DAkkS accredited calibration or factory calibration KD9xxx pressure for sensor or measuring chain (sensor + device), see chapter „Calibration certificates“. DAkkS accredited calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.

11/2025 • We reserve the right to make technical changes.