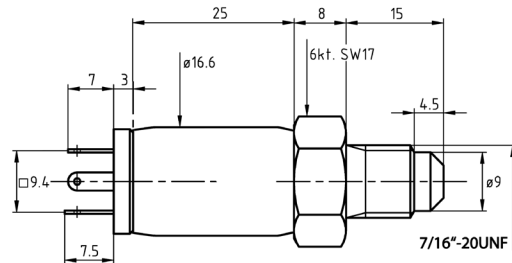


Pressure

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



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 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	Material in contact with medium	Stainless steel DIN 1.4404/1.1135 External seal, Viton
Response time (0 to 99 %)	<5 ms	Weight	approx. 50 g
Nominal conditions	22°C ±2 K, 10 to 90 % RH, non-condensing	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 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	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

*) 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

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

up to 30bar

up to 50bar

Order no.

FDA602L5AK

FDA602L6AK

FDA602L7AK

DAkS or factory calibration KD9xxx pressure for sensor or measuring chain (sensor + device) (see chapter Calibration certificates).

DAkS calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.