PRESSURE

Pressure transducer for measuring the temperature of refrigerants, absolute pressure Type FDA602LxAK

- 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 :	1.3 times the final value
Output signal:	0.2 … 2.2V
Category of accuracy: (linearity + hysteresis + reproducibility)	±0.5% of final value
Temperatue drift	
zero point	< 0.03 % of final value /K
steepnees	< 0.03 % /K
Temp. range compensate	0 ... 50 °C
Nominal conditions:	22°C ± 2K, 10 to 90% rH non-condensing
Power supply:	6 to 15VDC, <4 mA
Operating temperature:	–20 to +80°C
Pressure connection :	external thread 7/16" membrane not flush with front:
Material medium contact:	stainless steel 1.4435
Weight:	75g
Electromagn. compatibility:	CE marked: test acc. to IEC 801.2 and 802.2
Protection system:	IP 65

Accessories:

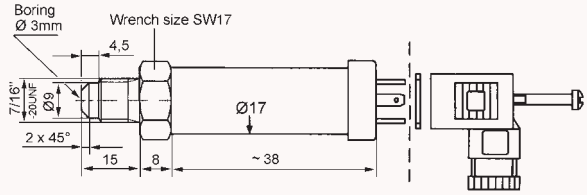
Longer cable, please specify length (L) Order no. ZB9060K(L)

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 SB0000R2

The ALMEMO® Version V6 devices, (2590, 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**	**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