

PRESSURE



Pressure Transducer Type FDA612L



- ▶ 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.
- ▶ Available with three calibrations.
Relative pressure: pressure related to the environmental pressure.
Absolute pressure: pressure related to vacuum (0 bar)
Overpressure: pressure related to atm. pressure at manufacturing (approx. 1 bar).

Accessories:

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

Types:

including ALMEMO® cable 1.5m long

Measuring ranges relative pressure:

up to 2.5 bar **Order No. FDA612L3R**
up to 10 bar **Order No. FDA612L5R**

Measuring ranges absolute pressure:

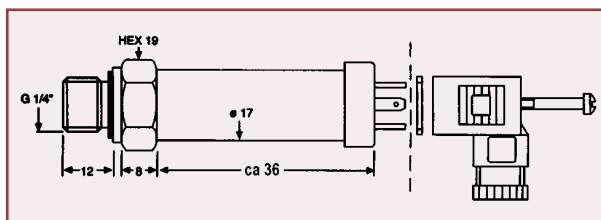
up to 5 bar **Order No. FDA612L4A**

Measuring ranges excess pressure:

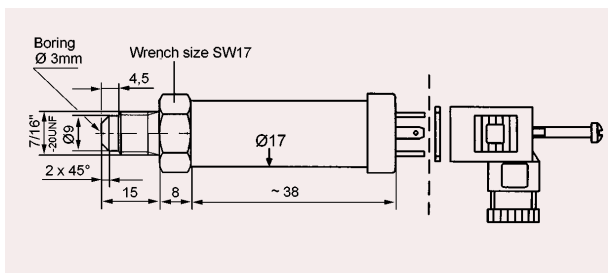
up to 25 bar **Order No. FDA612L2U**
up to 50 bar **Order No. FDA612L3U**
up to 100 bar **Order No. FDA612L4U**

Technical Data:

Supply voltage:	6 ... 15VDC
Output signal:	0.05 ... 2V (lower limit of meas. range 2.5% of fin. val.)
Response time:	< 2ms
Category of accuracy: (linearity + hysteresis + reproducibility)	±1% of final value
Linearity:	0.5% max.
Total error range*:	
+18 ... +22°C:	1% max. / 0.5% typ.
0 ... +18 / +22 ... +50°C:	2% max. / 1% typ.
-20 ... 0 / +50 ... +80°C:	4% max. / 2.5% typ.
* including linearity, hysteresis, zero point and sensitivity, temperature effects, reproducibility	
Nominal conditions:	22°C ± 2K, 10 to 90% rH non-condensing
Power supply:	6 to 15VDC, <4 mA
Housing:	<25 bar: special steel 1.4301 >25 bar: special steel 1.4571
Pressure sensor membrane:	special steel 1.4435
Operating temperature:	-20 to +80°C
Fitting:	ext. thread G ¹ / ₄ " , membrane not flush with front
Pressure medium:	compatible with stainless steel
Weight:	75g
Electromagn. compatibility:	CE marked: test acc. to IEC 801.2 and 802.2
Protection system:	IP 65
Insulation:	> 100MΩ / 50VDC
Insulation test:	1 minute at 500VDC



Pressure transducer for measuring the temperature of refrigerants, absolute pressure Type FDA612LxAK



- ▶ for ALMEMO devices V5, with refrigerants option SB0000R (see page 11.04)

Technical Data:

as for FDA612L except :

Pressure connection : external thread 7/16"
membrane not flush with front:

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. FDA612L5AK**
up to 30bar **Order No. FDA612L6AK**
up to 50bar available on request