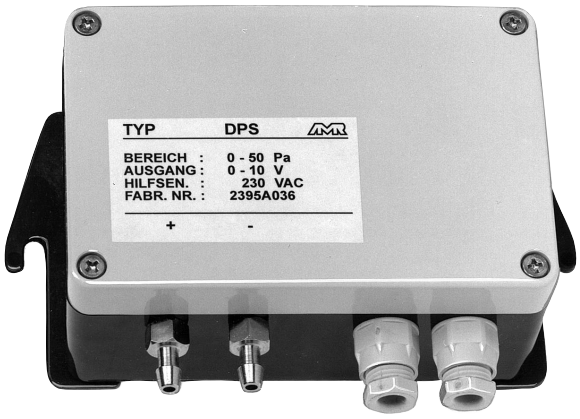
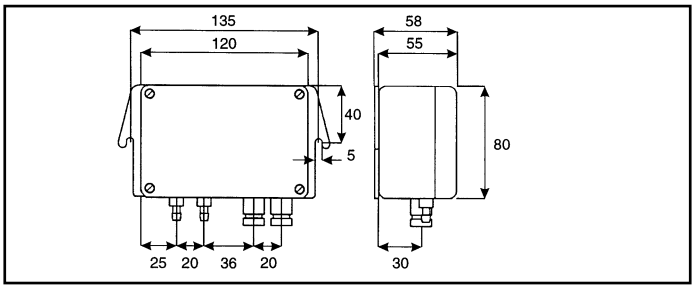
Pressure Sensors for Wall Mounting FD 8612 DPS / APS



- Suitable for use in the laboratory, as well as for use in harsh industrial environments, e.g. HEVAC applications, clean room technology, medical technology, filter technology and finishing pass technology.
- The robust mechanics guarantees long term stability, linearity and good reproducibility.
- Temperature drift reduced to a minimum by specific compensation of the sensors.
- Operation is almost maintenance-free, as a result of the free-from-wear inductive measuring system.
- As standard, the integrated electronics provide a pressure proportional voltage signal from 0 to 2V as output.



Technical Data:

Linearity:	±1% of final value, option: ±0.2% or ±0.5%
Hysteresis:	±0.1% of final value
Nominal temperature:	23°C
Overload capacity:	up to 400 mb: 5-fold, from 500 mb: 2-fold
Max. common mode pressure:	1 bar (at differential measurement)
Power supply:	6 ... 12 VDC, option: 230V 50/60Hz
Power consumption:	approx. 3.5mA
Output:	0 to 2V, option: 0 to 10V/0(4) to 20mA
Connection:	electrical: screw terminals, screwed cable gland PG 7, pressure: 6.5mm hose connection

Rise time:	T_{90} approx. 0.02s
Temperature drift: Zero point range	 0.03% of final value / K, 0.03% of final value / K
Operative range:	+10 to +50°C , air humidity 10 to 90% non-condensing
Storage temperature:	–10 to +70°C
Housing:	material ABS 120 x 80 x 55mm (L x H x D) Safety class: 0
Protection system:	IP 54
Weight:	approx. 300g
Sensor capacity:	approx. 3ml
Volume increase:	approx. 0.2ml at nom. press.k

Optionen	Order no.		Order no.
Linearity 0.2% (DPS from final value / APS from range) with DPS only in ranges ≥ 2.5 mbar with APS only in range ≤ 100 mbar	OD8612L2	Power supply : 230 V	OD8612N
		Output 0 to 10 V (voltage supply 19 to 31 V DC)	OD8612R2
Linearity 0.5% (DPS from final value / APS from range) with DPS only in ranges ≥ 1 mbar with APS only in range ≤ 200 mbar	OD8612L5	Output 0 to 20 mA (voltage supply 19 to 31 V DC)	OD8612R3
		Output 4 to 20 mA (voltage supply 19 to 31 V DC)	OD8612R4

Accessories	Order no.		Order no.
Connecting cable 2m long mounted with connector for connection to ALMEMO® devices	ZA8612AK2	Silicone hose black per m	ZB2295SSL
1 set silicone hoses 2m long black/colourless	ZB2295S	Silicone hose colourless per m	ZB2295SFL

Types	Order no.		Order no.
Measuring ranges relative and differential pressure:		**Measuring ranges absolute pressure:**	
Pressure transducer type DPS 0 to 2.5 mbar ... 1000 mbar Please specify measuring range	**FD8612DPS**	Pressure transducer type APS 0 to 1000 mbar, 900 to 1100 mbar, 800 to 1200 mbar Please specify measuring range	**FD8612APS**
Range 1 mbar (100 Pa), additional charge	**OD8612P10**	DAkkS / DKD or factory calibration KD9xxx pressure for sensor or measuring chain (sensor + device) (see chapter Calibration certificates)	
Range 0.5 mbar (50 Pa), additional charge	**OD8612P05**		