

PRESSURE

Pressure Sensors for Wall Mounting Type FD8612DPS/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.

Options:

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

Accessories:

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

Types:

Measuring ranges relative and differential pressure:

0 to 2.5 mbar / 10 mbar / 100 mbar / 1000 mbar

Pressure transducer type DPS,

Please specify measuring range

Order No. FD8612DPS

Measuring range 1 mbar (100 Pa),
additional charge

Order No. OD8612P10

Measuring range 0.5 mbar (50 Pa),
additional charge

Order No. OD8612P05

Measuring ranges absolute pressure:

0 to 1000 mbar, 900 to 1100 mbar, 800 to 1200 mbar

Pressure transducer type APS

Please specify measuring range

Order No. FD8612APS

Technical Data:

Linearity:	$\pm 1\%$ of final value, option: $\pm 0.2\%$ or $\pm 0.5\%$
Hysteresis:	$\pm 0.1\%$ 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:	6VDC, 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.

