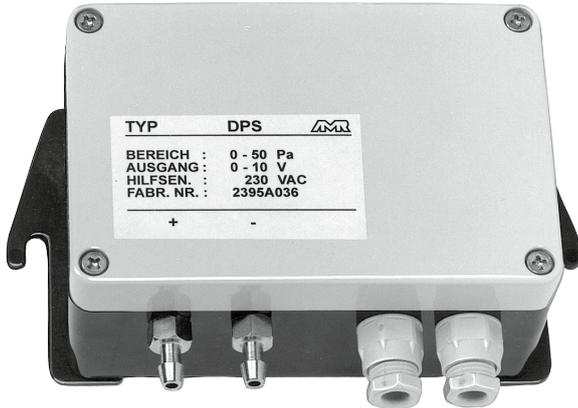
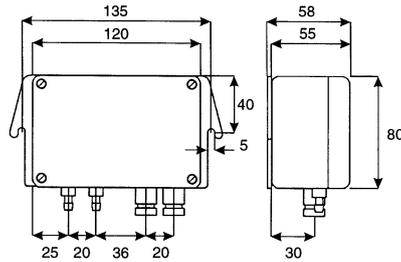


# Pressure

## 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, or range span
Hysteresis:	±0.1% of final value, or range span
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 <sub>90</sub> 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

### Options

Options	Order no.	Order no.
Power supply : 230 V	OD8612N	Output 0 to 20 mA (voltage supply 19 to 31 V DC) OD8612R3
Output 0 to 10 V (voltage supply 19 to 31 V DC)	OD8612R2	Output 4 to 20 mA (voltage supply 19 to 31 V DC) OD8612R4

### Accessories

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

Types	Order no.	Order no.
<b>Measuring ranges relative and differential pressure:</b> Pressure transducer type DPS Measuring range 2.5 to 1000 mbar Please specify measuring range	<b>FD8612DPS</b>	<b>Measuring ranges absolute pressure:</b> Pressure transducer type APS Measuring range 1000 mbar, 900 to 1100 mbar, 800 to 1200 mbar Please specify measuring range
Range 1 mbar (100 Pa), additional charge	<b>OD8612P10</b>	<b>FD8612APS</b>
Range 0.5 mbar (50 Pa), additional charge	<b>OD8612P05</b>	

DAkKS or factory calibration KD9xxx pressure for sensor or measuring chain (sensor + device), see chapter „Calibration certificates“. DAkKS calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.