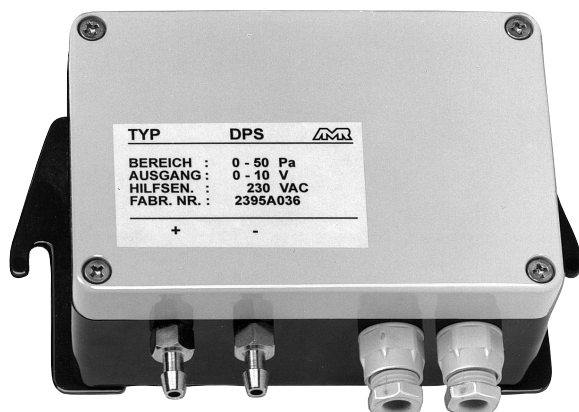
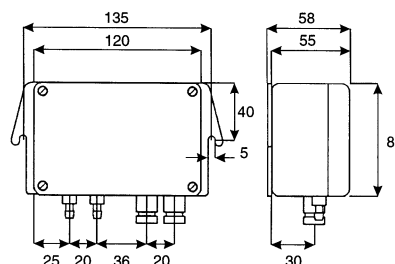


## Pressure Sensors for Wall Mounting FD 8612 DPS / APS



- 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,<br>option: ±0.2% or ±0.5%  | Rise time:                       | T <sub>90</sub> approx. 0.02s                                  |
| Hysteresis:                | ±0.1% of final value   | Temperature drift:<br>Zero point | 0.03% of final value / K,                                      |
| Nominal temperature:       | 23°C   | range                            | 0.03% of final value / K                                       |
| Overload capacity:         | up to 400 mb: 5-fold,<br>from 500 mb: 2-fold   | Operative range:                 | +10 to +50°C,<br>air humidity 10 to 90%<br>non-condensing      |
| Max. common mode pressure: | 1 bar<br>(at differential measurement)   | Storage temperature:             | -10 to +70°C   |
| Power supply:              | 6 ... 12 VDC, option: 230V 50/60Hz   | Housing:                         | material ABS<br>120 x 80 x 55mm (L x H x D)<br>Safety class: 0 |
| Power consumption:         | approx. 3.5mA  | Protection system:               | IP 54  |
| Output:                    | 0 to 2V, option:<br>0 to 10V/0(4) to 20mA  | Weight:                          | approx. 300g   |
| Connection:                | electrical: screw terminals,<br>screwed cable gland PG 7,<br>pressure: 6.5mm hose connection | Sensor capacity:                 | approx. 3ml  |
|                            |  | Volume increase:                 | approx. 0.2ml at nom. press.k                                  |

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

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

| Types   | Order no.        | Order no.   |
|---|------------------|---|
| <b>Measuring ranges relative and differential pressure:</b><br>Pressure transducer type DPS 0 to 2.5 mbar ... 1000 mbar<br>Please specify measuring range | <b>FD8612DPS</b> | <b>Measuring ranges absolute pressure:</b><br>Pressure transducer type APS 0 to 1000 mbar, 900 to 1100 mbar, 800 to 1200 mbar |
| Range 1 mbar (100 Pa), additional charge  | <b>OD8612P10</b> | Please specify measuring range  |
| Range 0.5 mbar (50 Pa), additional charge   | <b>OD8612P05</b> | <b>FD8612APS</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.