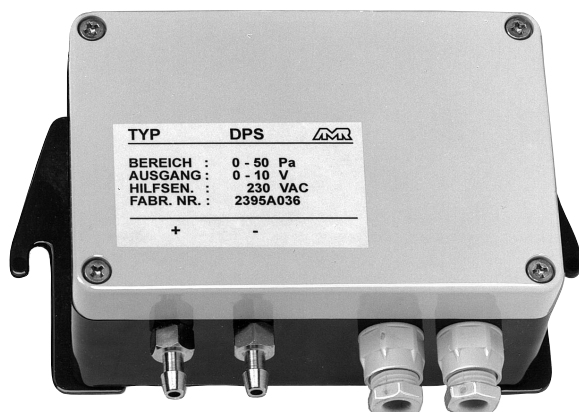
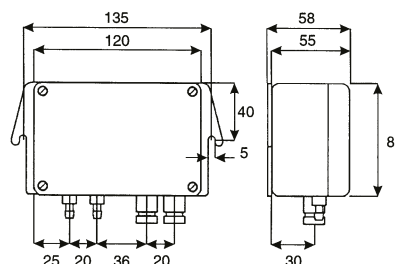


Pressure Sensors for Wall Mounting FD 8612 DPS / APS



- 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% | Rise time: | T ₉₀ approx. 0.02s |
| Hysteresis: | ±0.1% of final value | Temperature drift: Zero point range | 0.03% of final value / K, 0.03% of final value / K |
| Nominal temperature: | 23°C | Operative range: | +10 to +50°C, air humidity 10 to 90% non-condensing |
| Overload capacity: | up to 400 mb: 5-fold, from 500 mb: 2-fold | Storage temperature: | -10 to +70°C |
| Max. common mode pressure: | 1 bar (at differential measurement) | Housing: | material ABS 120 x 80 x 55mm (L x H x D) Safety class: 0 |
| Power supply: | 6 ... 12 VDC, option: 230V 50/60Hz | Protection system: | IP 54 |
| Power consumption: | approx. 3.5mA | Weight: | approx. 300g |
| Output: | 0 to 2V, option: 0 to 10V/0(4) to 20mA | Sensor capacity: | approx. 3ml |
| Connection: | electrical: screw terminals, screwed cable gland PG 7, pressure: 6.5mm hose connection | 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 |
| 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 10 V (voltage supply 19 to 31 V DC) OD8612R2 |
| | | 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: Pressure transducer type DPS Measuring range 2.5 to 1000 mbar Please specify measuring range | FD8612DPS | Measuring ranges absolute pressure: 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 | OD8612P10 | FD8612APS |
| Range 0.5 mbar (50 Pa), additional charge | OD8612P05 | |

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.