



## Pressure Transducer Heavy Duty Industrial Piezoresistive



measuring  
•  
monitoring  
•  
analysing

Option:  
Pluggable  
Sandwich  
Display  
Model AUF



- Absolute pressure
- Internally-fitted diaphragm
- Measuring range:  
0...0.25 to 0...16 bar
- Temperature (medium):  
max. 100 °C
- Accuracy class:  
0.25 or 0.5
- Material:  
Stainless steel
- Connection: G 1/2



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**Model:**  
SEN-3245  
SEN-3248

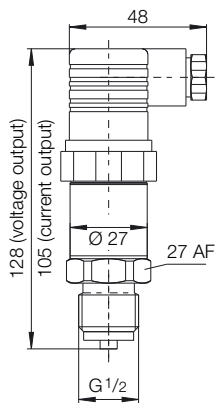


**Description**

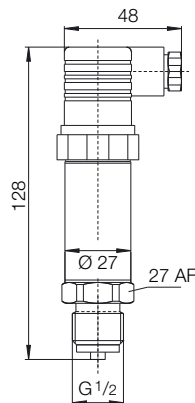
The heavy duty compact pressure sensors are top-of-the-range among pressure transmitters. A piezoresistive pressure measuring cell serves as measuring element. Housing and wetted parts are made of stainless steel and are thus resistant to chemically aggressive media. Pressure port and measuring cell are welded together – which means that the measuring system is very resistant to mechanical shock and vibrations. For difficult measurement applications (for example hydrostatic column) zero-point and span can be adjusted with two potentiometers.

**Dimensions**

SEN-3245...



SEN-3248...



**Applications**

- Plant engineering
- Process engineering
- Hydraulics
- R & D and laboratory
- Pneumatics

**Technical Details**

Version: internally-fitted diaphragm  
 Type of pressure: absolute pressure  
 Housing: stainless steel 1.4301  
 Connections: G 1/2 external thread according to DIN 16288  
 Wetted parts: stainless steel 1.4571 and 1.4542  
 Measuring element: piezoresistive  
 Max. temperature: storage: - 40 to +100 °C  
 measured medium: - 30 to +100 °C  
 environment: - 20 to +80 °C

Allowed excess pressure: ≤ 16 bar: 3.5-fold vacuum tight  
 Accuracy class: 0.25 or 0.5  
 Reproducibility: ≤ ±0.05 % f. s.  
 Stability per year: ≤ ±0.2 % f. s. (at reference conditions)  
 Electrical connection: connector accord. to DIN 43 650  
 Auxiliary power: 10...30 V<sub>DC</sub> (14...30 V<sub>DC</sub> for 0 - 10 V output)  
 Output: 4 - 20 mA (2-wire), 0 - 10 V<sub>DC</sub>  
 Load (Ω): ≤ (U<sub>B</sub> - 10 V)/0.02 A (at 4 - 20 mA) > 10 kΩ at 0 - 10 V  
 Response time: ≤ 1 ms (within 10 - 90 % f. s.)  
 Variability: zero-point and span up to ±5 %  
 Compensated range: 0 to +80 °C  
 Temperature effect: on zero-point and span ±0.2%/10 K  
 Protection: IP 65

**Order Details Sensor** (Example: SEN-3245 B015)

Measuring range	Order no. Absolute pressure class 0.5 4 - 20 mA	Order no. Absolute pressure class 0.5 0 - 10 V <sub>DC</sub>	Order no. Absolute pressure class 0.25 4 - 20 mA	Order no. Absolute pressure class 0.25 0 - 10 V <sub>DC</sub>
0 to 0.25 bar	SEN-3245 B146	SEN-3245/2 B146	SEN-3248 B146	SEN-3248/2 B146
0 to 0.4 bar	SEN-3245 B156	SEN-3245/2 B156	SEN-3248 B156	SEN-3248/2 B156
0 to 0.6 bar	SEN-3245 B015	SEN-3245/2 B015	SEN-3248 B015	SEN-3248/2 B015
0 to 1.0 bar	SEN-3245 B025	SEN-3245/2 B025	SEN-3248 B025	SEN-3248/2 B025
0 to 1.6 bar	SEN-3245 B035	SEN-3245/2 B035	SEN-3248 B035	SEN-3248/2 B035
0 to 2.5 bar	SEN-3245 B045	SEN-3245/2 B045	SEN-3248 B045	SEN-3248/2 B045
0 to 4.0 bar	SEN-3245 B055	SEN-3245/2 B055	SEN-3248 B055	SEN-3248/2 B055
0 to 6.0 bar	SEN-3245 B065	SEN-3245/2 B065	SEN-3248 B065	SEN-3248/2 B065
0 to 10.0 bar	SEN-3245 B075	SEN-3245/2 B075	SEN-3248 B075	SEN-3248/2 B075
0 to 16.0 bar	SEN-3245 B085	SEN-3245/2 B085	SEN-3248 B085	SEN-3248/2 B085