

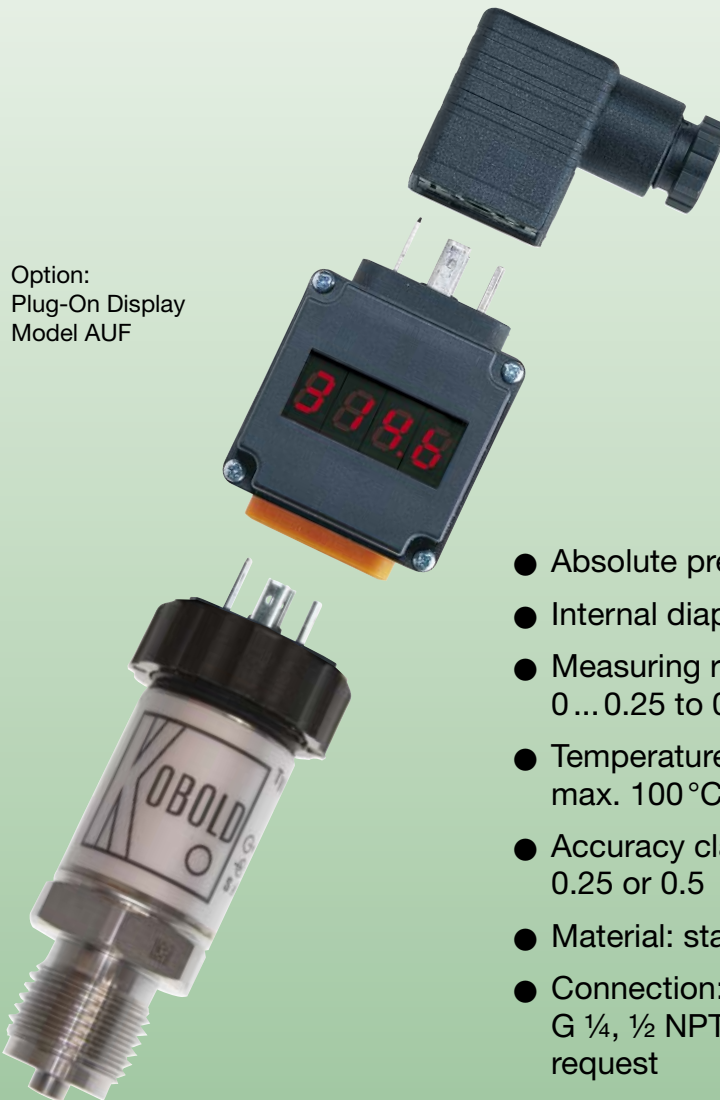


Pressure Sensor Heavy Duty Industrial Piezoresistive



measuring
•
monitoring
•
analysing

SEN-3245/3248



Option:
Plug-On Display
Model AUF

- Absolute pressure
- Internal diaphragm
- Measuring range:
0 ... 0.25 to 0 ... 25 bar
- Temperature (medium):
max. 100 °C
- Accuracy class:
0.25 or 0.5
- Material: stainless steel
- Connection: G ½;
G ¼, ½ NPT and ¼ NPT on
request



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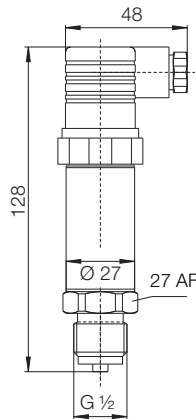
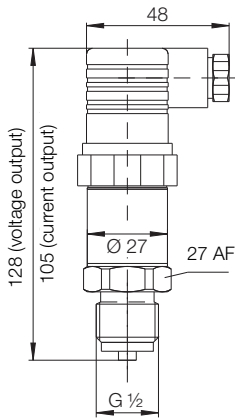
Description

The heavy duty industrial 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 (in mm)

SEN-3245...

SEN-3248...



Anwendungen

- Plant construction
- Development and laboratory
- Process engineering
- Pneumatics
- Hydraulics

Technical Details

- Version: internal diaphragm
- Type of pressure: absolute pressure
- Housing: stainless steel 1.4301
- Connections: G 1/2 male thread acc. to EN 837; G 1/4 male thread, 1/4 NPT and 1/2 NPT on request
- Wetted parts: stainless steel 1.4571 and 1.4542
- Measuring element: piezoresistive
- Max. temperature: Storage: -40 ... +100 °C
Measured medium: -30 ... +100 °C
Environment: -20 ... +80 °C
- Overrange limit: ≤ 16 bar: 3,5 fold
> 16 bar: 2 fold, vacuum tight
- Accuracy class: 0.25 or 0.5
- Reproducibility: ≤ ±0.05 % of full scale
- Stability per year: ≤ ±0.2 % of full scale (at reference conditions)
- Electrical connection: connector according to DIN 43 650
- Auxiliary power: 10 ... 30 V_{DC}
(14 ... 30 V_{DC} for 0 - 10 V output)
- Output: 4 - 20 mA (2-wire), 0 - 10 V_{DC}
- Load (Ω): ≤ (U_B-10 V)/0.02 A (for 4 - 20 mA)
> 10 kΩ for 0 - 10 V
- Response time: ≤ 1 ms (within 10 - 90 % of full scale)
- Variability: zero-point and span up to ± 5 %
- Compensated range: 0 ... +80 °C
- Temperature influence: on zero-point and span ± 0.2 % / 10 K
- Protection: IP 65

Order Details Sensor (Example: SEN-3245 B015)

Model	Output	Measuring range	Connection
SEN-3245... Accuracy class 0.50 % SEN-3248... Accuracy class 0.25 %	without = 4 - 20 mA, 2-wire /2 = 0 ... 10 V _{DC}	B 146 = 0 ... 0.25 bar B 156 = 0 ... 0.4 bar B 015 = 0 ... 0.6 bar B 025 = 0 ... 1 bar B 035 = 0 ... 1.6 bar B 045 = 0 ... 2.5 bar B 055 = 0 ... 4 bar B 065 = 0 ... 6 bar B 075 = 0 ... 10 bar B 085 = 0 ... 16 bar A 095 = 0 ... 25 bar	without = plug Form A (DIN 43650) incl. junction box