



## Pressure Transducer Heavy Duty Industrial Piezoresistive



measuring  
•  
monitoring  
•  
analysing

SEN-3276/3277

Option:  
pluggable sandwich  
display Model AUF



- Gauge pressure
- Internal diaphragm
- Measuring range:  
0.1... 0 to 0... 25 bar
- Measuring span  
from 100 mbar
- Temperature (medium):  
max. 100 °C
- Accuracy class:  
0.25 or 0.5
- Material: stainless steel
- Connection: G 1/2, G 1/4,  
1/4" NPT and 1/2" NPT  
on request
- Oil- and grease-free  
on request
- LABS-free on request
- Absolute pressure  
on request



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KOBOLD Messring GmbH  
Nordring 22-24  
D-65719 Hofheim/Ts.  
Head Office:  
+49(0)6192 299-0  
+49(0)6192 23398  
info.de@kobold.com  
www.kobold.com

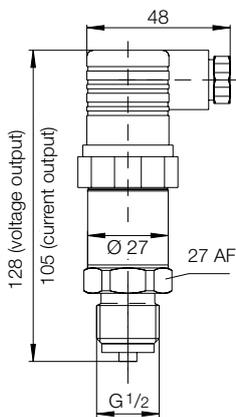
**Description**

The Heavy Duty Industrial pressure transducers are the leaders among the pressure transducers. The thin-film technology of the sensor element fulfils the most demanding requirements.

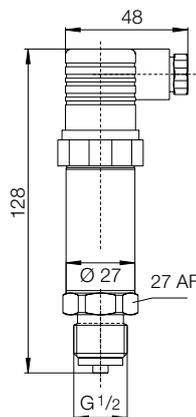
Case and wetted parts are stainless steel. Therefore they are extremely resistant against aggressive process liquids. The sensor is unaffected by shock or vibration. Two adjustment potentiometers permit the use of these pressure transducers in most difficult applications like measurement of the hydrostatic column.

**Dimensions [mm]**

SEN-3276...



SEN-3277...



**Applications**

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

**Technical Details**

- Version: internal diaphragm
- Pressure type: gauge pressure (absolute pressure)
- Housing: stainless steel 1.4571
- Connection: 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
- Sensor element: piezoresistive
- Max. temperature: storage: -40...+100 °C  
medium: -30...+100 °C  
ambient: -20...+80 °C
- Pressure limitation: ≤ 16 bar: 3.5 fold  
> 16 bar: 2 fold, vacuum-tight
- Accuracy class: 0.25 or 0.5
- Repeatability: ≤ ± 0.05 % of full scale
- Stability per year: ≤ ± 0.2 % of full scale (under reference conditions)
- Electrical connection: plug acc. to DIN 43 650
- Auxiliary power: 10 ... 30 V<sub>DC</sub>  
(14 ... 30 V<sub>DC</sub> for output 0 - 10 V)
- Output: 4 - 20 mA (2-wire),  
0 - 5 V<sub>DC</sub>, 0 - 10 V<sub>DC</sub>
- Load (Ω): ≤ (U<sub>B</sub> - 10 V) / 0.02 A (for 4 - 20 mA)  
> 5 kΩ for 0 - 5 V  
> 10 kΩ for 0 - 10 V
- Response time: ≤ 1 ms (within 10 - 90 % of full scale)
- Adjustability: zero-point and span up to ± 5 %
- Temp. comp. range: 0 ... +80 °C
- Temperature influence: on zero-point and span  
± 0.2 % / 10 K zero point for measuring range 0 ... 0.1 and 0 ... 0.16 bar ± 0,4 % / 10 K
- Protection: IP 65

**Order Details Sensor** (Example: SEN-3276 C315)

Model	Output	Measuring range**	Connection
SEN-3276... Accuracy class 0.50 %	without = 4 - 20 mA, 2-wire	C 406* = -0,1 ... 0 bar	without = plug Form A (DIN 43650) incl. junction box
		C 416* = -0,16 ... 0 bar	
C 426 = -0,25 ... 0 bar	B 146 = 0 ... 0.25 bar		
C 436 = -0,4 ... 0 bar	B 156 = 0 ... 0,4 bar		
C 305 = -0,6 ... 0 bar	B 015 = 0 ... 0,6 bar		
C 315 = -1 ... 0 bar	B 025 = 0 ... 1 bar		
C 505 = -1 ... +0,6 bar	B 035 = 0 ... 1.6 bar		
C 515 = -1 ... +1,5 bar	B 045 = 0 ... 2.5 bar		
C 525 = -1 ... +3 bar	B 055 = 0 ... 4 bar		
C 535 = -1 ... +5 bar	B 065 = 0 ... 6 bar		
C 545 = -1 ... +9 bar	B 075 = 0 ... 10 bar	3 = plug M12x1 (5-pin, IP 67)	
C 555 = -1 ... +15 bar	B 085 = 0 ... 16 bar		
B 126 = 0 ... 0,1 bar	B 095 = 0 ... 25 bar		
SEN-3277... Accuracy class 0.25 %	/1 = 0 ... 5 V <sub>DC</sub>	B 136 = 0 ... 0,16 bar	5 = 2 m cable, IP 67
	/2 = 0 ... 10 V <sub>DC</sub>		

\* Only for SEN-3276...  
\*\* Absolute pressure on request