

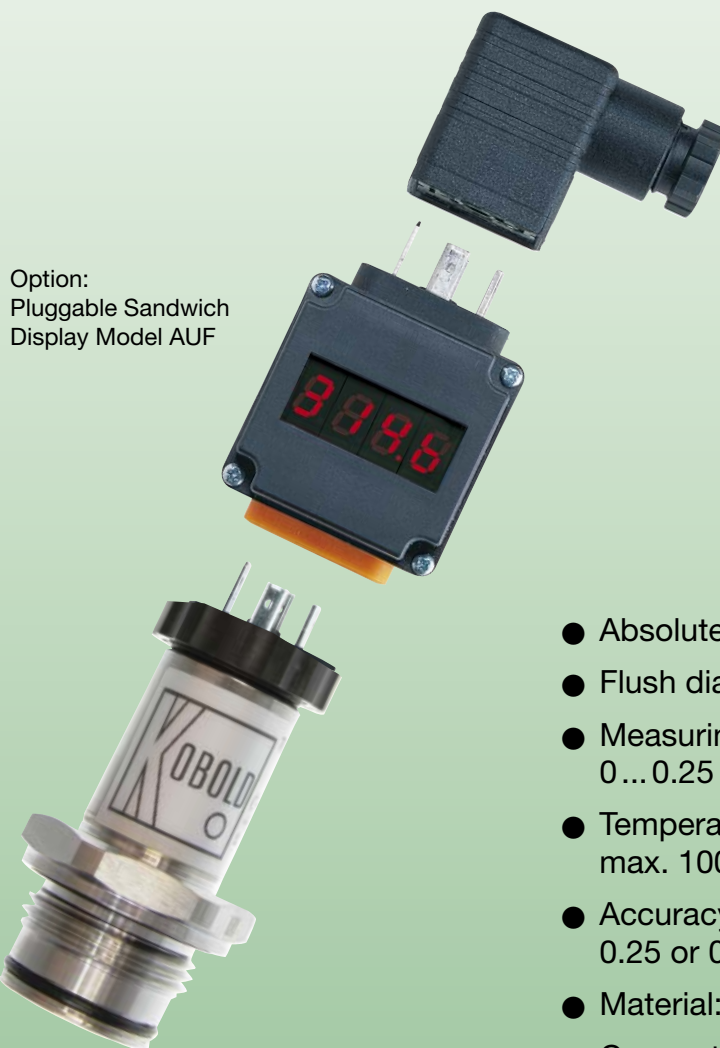


## Pressure Transducer Heavy Duty Industrial Piezoresistive



measuring  
•  
monitoring  
•  
analysing

SEN-3255/3256



Option:  
Pluggable Sandwich  
Display Model AUF

- Absolute pressure
- Flush 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 1/2, G 1



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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

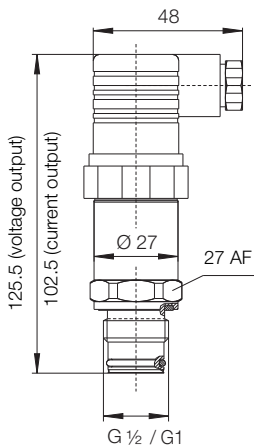
**Description**

The Heavy Duty Industrial pressure transducers are leaders among pressure transducers. The flush type diaphragm allows the use with aggressive, viscous or crystallizing process fluids. This type of sealing permits cleaning of the process connections without residues. Case and wetted parts are stainless steel. Therefore they are extremely resistant against aggressive media and fulfill the most demanding requirements.

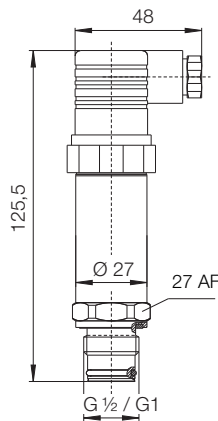
Two adjustment potentiometers for zero and span render possible the use in most difficult applications like measurement of the hydrostatic column.

**Dimensions (in mm)**

SEN-3255...



SEN-3256...



**Applications**

- Plant construction
- Apparatus engineering
- Process engineering
- Development and laboratory

**Technical Data**

Technology: flush diaphragm  
 Pressure type: gauge pressure  
 Housing: stainless steel 1.4301  
 Connections: Measuring span < 1.6 bar G 1 male  
 Measuring span > 2.5 bar G 1/2 female  
 Wetted parts: stainless steel 1.4571, NBR  
 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 according 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 - 10 V<sub>DC</sub>  
 Load (Ω): ≤ (U<sub>B</sub>-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)  
 Adjustability: zero point and measuring span ± 10 %  
 Compensated range: 0... +80 °C  
 Temperature influence: zero point and span ± 0.2 % / 10 K  
 Protection: IP 65

**Accessories**

Weld on Adapter for flush diaphragm transducer

Connection	Model
Weld on adapter G 1/2	MZB-ESAR15
Weld on adapter G 1	MZB-ESAR25
Screw in adapter G 1 male x G 1/2 female	MZB-ESAR25R15
Screw in adapter G 3/4 male x G 1/2 female	MZB-ESAR20R15
Screw in adapter DIN 11851 1.5" x G 1 female	MZB-ESAF40R25
Screw in adapter DIN 11851 2" x G 1 female	MZB-ESAF50R25

**Order Details Sensor (Example: SEN-3255 B146)**

Model	Output	Measuring range	Connection
<b>SEN-3255...</b> Accuracy class 0.50 % <b>SEN-3256...</b> Accuracy class 0.25 %	without = 4 - 20 mA, 2-wire /2 = 0... 10 V <sub>DC</sub>	<b>B 146</b> = 0 ... 0.25 bar <b>B 156</b> = 0 ... 0.4 bar <b>B 015</b> = 0 ... 0.6 bar <b>B 025</b> = 0 ... 1 bar <b>B 035</b> = 0 ... 1.6 bar <b>B 045</b> = 0 ... 2.5 bar <b>B 055</b> = 0 ... 4 bar <b>B 065</b> = 0 ... 6 bar <b>B 075</b> = 0 ... 10 bar <b>B 085</b> = 0 ... 16 bar <b>A 095</b> = 0 ... 25 bar	without = plug Form A (DIN 43650) incl. junction box