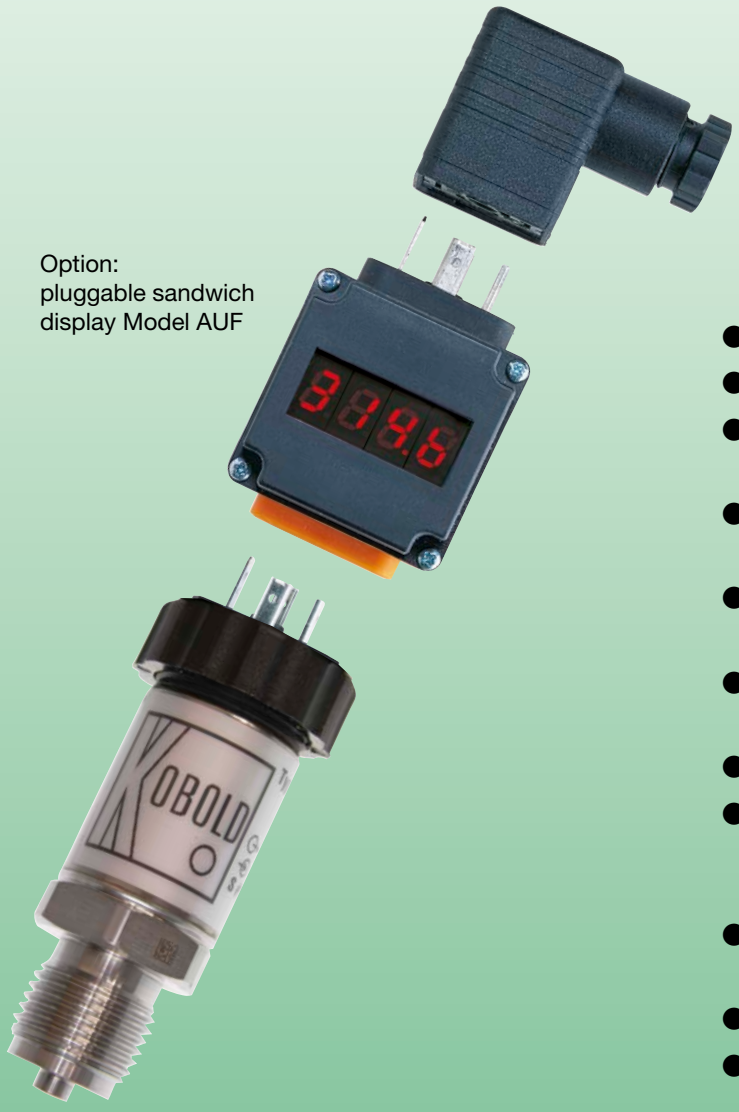
Zertifiziertes QM-System
DIN EN ISO 9001
Zertifikat-Nr. 01017

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 ½, G ¼,
  ¼" NPT and ½" NPT
  on request
- Oil- and grease-free
  on request
- LABS-free on request
- Absolute pressure
  on request

P2

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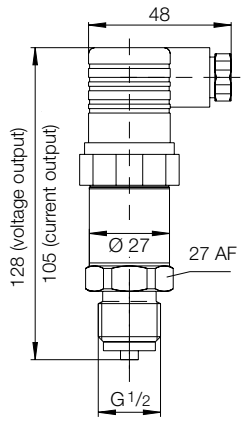
Description

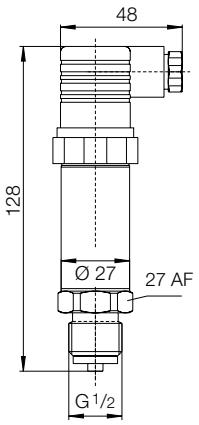
The Heavy Duty Industrial pressure transducers are the leaders among the pressure transducers. The thin-film technology of the sensor element fulfils the most demanding requirements.
Case and wetted parts are stainless steel. Therefore they are extremly resistant against aggressive process liquids. The 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 1.4301
Connection:	G ½ male thread acc. to EN 837; G ¼ male thread, ¼" NPT and ½" 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 limitiation:	≤ 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_{DC} (14 ... 30 V_{DC} for output 0 - 10 V)
Output:	4 - 20 mA (2-wire), 0 - 5 V_{DC}, 0 - 10 V_{DC}
Load (Ω):	≤ (U_B-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 % **SEN-3277...** Accuracy class 0.25 %	**without** = 4 - 20 mA, 2-wire **/1** = 0 ... 5 V_{DC} **/2** = 0 ... 10 V_{DC}	**C 406*** = -0,1 ... 0 bar **C 416*** = -0,16 ... 0 bar **C 426** = -0,25 ... 0 bar **C 436** = -0,4 ... 0 bar **C 305** = -0,6 ... 0 bar **C 315** = -1 ... 0 bar **C 505** = -1 ... +0,6 bar **C 515** = -1 ... +1,5 bar **C 525** = -1 ... +3 bar **C 535** = -1 ... +5 bar **C 545** = -1 ... +9 bar **C 555** = -1 ... +15 bar **B 126** = 0 ... 0,1 bar **B 136** = 0 ... 0,16 bar	**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 **B 095** = 0 ... 25 bar	**without** = plug Form A (DIN 43650) incl. junction box **3** = plug M12x1 (5-pin, IP 67) **5** = 2 m cable, IP 67

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

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