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

Pressure Transducer
Heavy Duty Industrial
Piezoresistive

measuring • monitoring • analysing

SEN-3251/3252

Option:
Pluggable
Sandwich
Display
Model AUF

- Gauge pressure
- Flush diaphragm
- Measuring range:
  -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 1

P2

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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

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Description

The Heavy Duty Industrial pressure transducers are leaders among pressure transducers. The flush type diaphragm allows the use with aggressive, viscous or crystallising process fluids. This type of sealing permits cleaning of the process connections without residues. Case and wetted parts are stainless steel. Therefore the 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.

Applications

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

Technical Details

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 ½ male
Wetted parts:	stainless steel 1.4571, NBR
Sensor:	piezoresistive
Max. temperature:	storage: -40 ... +100 °C medium: -30 ... +100 °C ambient: -20 ... +80 °C
Pressure limitation:	≤ 16 bar: 3,5 x range > 16 bar: 2 x range, vacuum-tight
Accuracy class:	0.25 or 0.5
Repeatability:	≤ ± 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 output 0 - 10 V)
Output:	4 - 20 mA (2-wire), 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)
Variability:	zero-point and span up to ± 10 %
Compensated range:	0 ... +80 °C
Temperature influence:	on zero-point and span ± 0.2 % / 10 K zero point for meas. range 0 ... 0.1 and 0 ... 0.16 bar ± 0.4 % / 10K
Protection:	IP 65 (IP 67)

Accessory

Weld on Adapter for flush diaphragm transducer

Connection	Model
Weld on adapter G ½	**MZB-ESAR15**
Weld on adapter G 1	**MZB-ESAR25**
Screw in adapter G 1 male x G ½ female	**MZB-ESAR25R15**
Screw in adapter G ¾ male x G ½ 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**
Screw in adapter G ½ male x G ½ female	**MZB-ESAR15R15**
Screw in adapter G 1¼ male x G ½ female	**MZB-ESAR32R15**
Screw in adapter G 1½ male x G ½ female	**MZB-ESAR40R15**
Screw in adapter G ½ male x G 1 female	**MZB-ESAR15R25**
Screw in adapter G 1¼ male x G 1 female	**MZB-ESAR32R25**
Screw in adapter G 1½ male x G 1 female	**MZB-ESAR40R25**

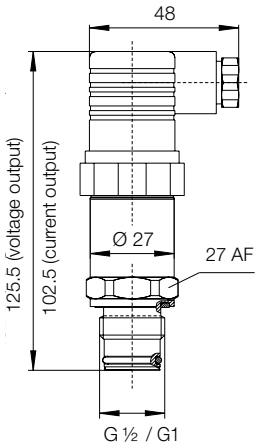
1/01 - 2019

Order Details Sensor (Example: **SEN-3251 C315**)

Model	Output	Measuring range		Connection
SEN-3251... Accuracy class 0.50 % **SEN-3252...** 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 515** = -1 ... +1,5 bar **C 525** = -1 ... +3 bar **C 535** = -1 ... +5 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 (4-pin, IP67) **5** = 2 m cable, IP67

Dimensions [mm]

SEN-3251...



SEN-3252...