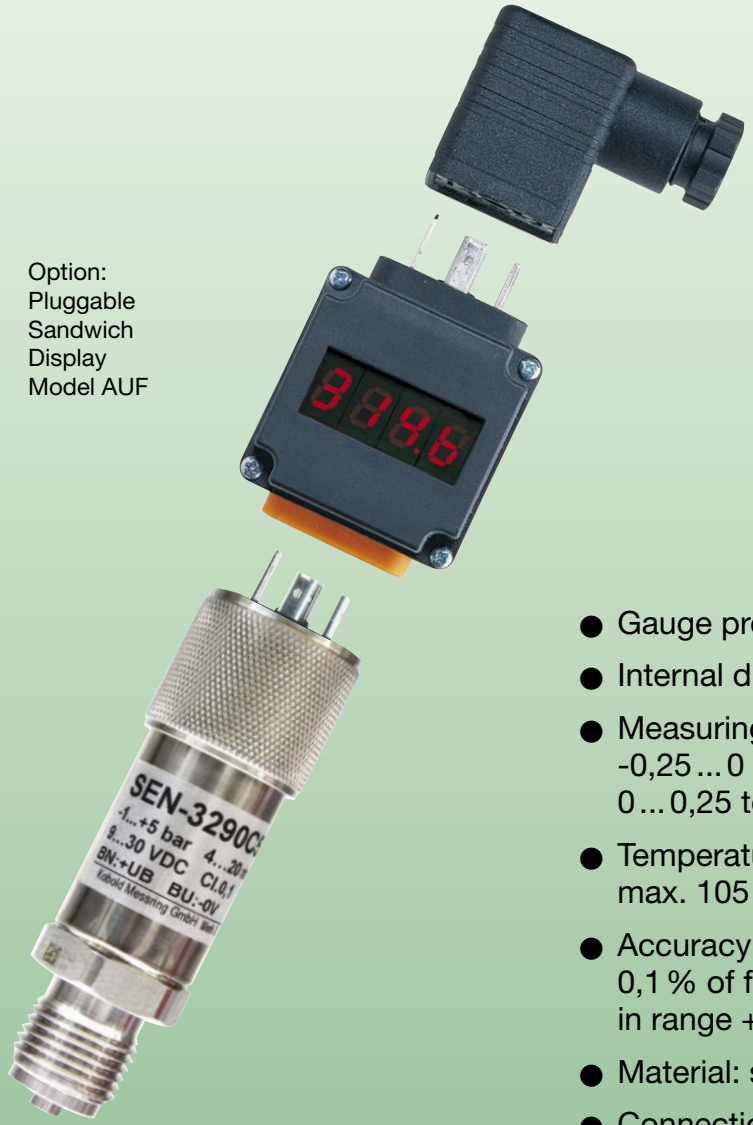
Zertifiziertes QM-System
DIN EN ISO 9001
Zertifikat-Nr. 01017

Pressure Transducer
Heavy Duty Precision
Piezoresistive

measuring • monitoring • analysing

SEN-3290



Option:
Pluggable
Sandwich
Display
Model AUF

- Gauge pressure
- Internal diaphragm
- Measuring range:
  -0,25 ... 0 to -1 ... +5 bar and
  0 ... 0,25 to 0 ... 25 bar
- Temperature (medium):
  max. 105 °C
- Accuracy:
  0,1 % of full scale
  in range +10 ...+60 °C
- Material: stainless steel
- Connection: G ½ male

KOBOLD companies worldwide:

ARGENTINA, AUSTRIA, BELGIUM, BULGARIA, CANADA, CHILE, CHINA, COLUMBIA, CZECHIA, DOMINICAN REPUBLIC, EGYPT, FRANCE, GERMANY, GREAT BRITAIN, HUNGARY, INDIA, INDONESIA, ITALY, MALAYSIA, MEXICO, NETHERLANDS, PERU, POLAND, ROMANIA, SINGAPORE, SOUTH KOREA, SPAIN, SWITZER-LAND, TAIWAN, THAILAND, TUNISIA, USA, VIETNAM

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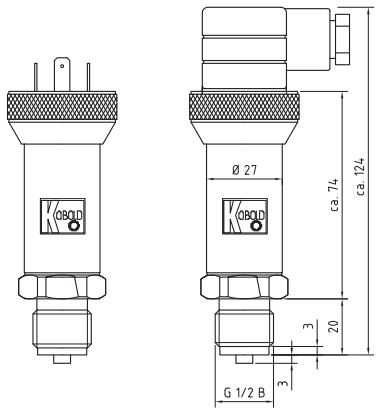
Description

The KOBOLD Heavy Duty Precision pressure transducers are the leaders among the pressure transducers. With an accuracy of 0.1% (0.05% optional) use in testing and calibration is given. By a programmatic compensation temperature of +10 °C ... +60 °C the temperature-induced error is practically zero. As measuring element, a piezoresistive sensor is used. Case and wetted parts are stainless steel. Therefore they are extremly resistant against aggressive process fluids. The sensor in uneffected by shock or vibration. Optional software is available to adjust zero and span in difficult applications like measurement of the hydrostatic column.

Dimensions (in mm)

SEN-3290...



Applications

- Testing and calibration
- R & D and laboratory
- Process engineering
- Hydraulics
- Pneumatics

Technical Details

Version:	internal diaphragm
Pressure type:	gauge pressure, optional absolute pressure (max. 16 bar)
Housing:	stainless steel
Connection:	G ½ B according to EN 837, optional G¼ B, ½ NPT, ¼ NPT
Wetted parts:	stainless steel 1.4571 and 1.4542
Sensor element:	piezoresistive
Max. temperature:	storage: -40 ... +80 °C medium: -20 ... +105 °C ambient: -20 ... +80 °C
Pressure limitiation:	≤ 16 bar: 3,5 x range, > 16 bar: 2 x range, vacuum-tight
Accuracy:	0,1 % of full scale in range +10 ... +60 °C option 0.05 % of full scale at +20 °C)
Repeatability:	≤ ± 0.03 % of full scale
Stability per year:	≤ ± 0.2 % of full scale (under reference conditions)
Electrical connection:	connector DIN EN 175301-803 Form A (DIN 43 650 A) optional: cable outlet 1,5 m, connector M12x1
Power supply:	9 ... 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}, optional: (0)4 - 20 mA (3-wire)
Load (Ω):	RA[Ω] ≤ (U_B[V]-9V) / 0,02 A (for 4 - 20 mA) > 5 kΩ for 0 - 5 V > 10 kΩ for 0 - 10 V
Response time:	1 ms (1 kHz) 3-wire; 3 ms (0,33 kHz) 2-wire
Warm-up time:	< 10 min
Adjustability:	zero point ± 5 % and span -20 ... +5 % (setting via software)
Compensated range:	-20 ... +80 °C
Temperature influence:	zero point and span ≤ 0,1 % / 10 K
Protection:	IP 65 (IP 67 for cable / M12x1)

Order Details Sensor (Example: **SEN-3290 C315**)

Model	Output	Measuring range		Connection
SEN-3290... Accuracyclass 0.10 %	**without** = 4 - 20 mA, 2-wire **/1** = 0 ... 5 V_{DC} **/2** = 0 ... 10 V_{DC} **/3** = 4 - 20 mA, 3-wire	**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 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** = connector Form A DIN EN 175301-803 Form A (DIN 43 650 A) incl. junction box **3** = connector M12x1 (4-pin, IP67) **5** = 2 m cable, IP67

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