



Pressure Transducer Heavy Duty Precision Thin Film



measuring
•
monitoring
•
analysing

SEN-3390



- Gauge pressure
- Internal diaphragm
- Measuring range:
0... 40 to 0 ... 1000 bar
- Temperature (medium):
max. 105 °C
- Accuracy:
0.1 % of full scale
- Material: stainless steel
- Connection: G ½ male



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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

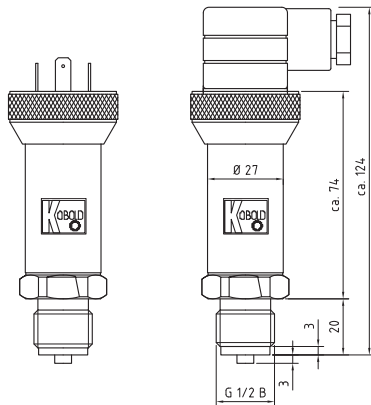


Description

The 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 thin-film pressure sensor is used. Case and wetted parts are stainless steel. Therefore they are extremely resistant against aggressive process fluids. The sensor is unaffected 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-3390...



Applications

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

Technical Details

Version: internal diaphragm
 Pressure type: gauge pressure
 Housing: stainless steel
 Connection: G 1/2 B according to EN 837, optional G 1/4 B, 1/2 NPT, 1/4 NPT
 Wetted parts: stainless steel
 Sensor element: Thin film
 Max. temperature: storage: -40...+80°C, medium: -20...+105°C, ambient: -20...+80°C
 Pressure limitation: < 600 bar: 2 x range, > 600 bar: 1.5 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), optional: (0)4 - 20 mA (3-wire), 0 - 5 V_{DC}, 0 - 10 V_{DC}
 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
 Adjustability: zero point -5...+20% 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-3390 A105)

Model	Output	Measuring range	Connection
SEN-3390... Accuracy class 0.1 %	without = 4 - 20 mA, 2-wire /1 = 0...5 V _{DC} /2 = 0...10 V _{DC} /3 = 4 - 20 mA, 3-wire	A 105 = 0 ... 40 bar A 115 = 0 ... 60 bar A 125 = 0 ... 100 bar A 135 = 0 ... 160 bar A 145 = 0 ... 250 bar A 155 = 0 ... 400 bar A 165 = 0 ... 600 bar A 175 = 0 ... 1000 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