



Pressure Transducer Heavy Duty Precision Thinfilm



measuring
•
monitoring
•
analysing

SEN-3391



- Gauge pressure
- Flush diaphragm
- Measuring range:
0... 40 to 0 ... 600 bar
- Temperature (medium):
max. 105 °C
- Accuracy:
0,1 % of full scale
- Material: stainless steel
- Connection: G ½ AG



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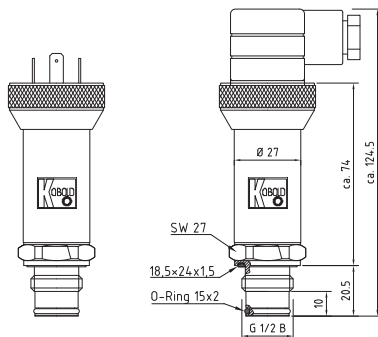
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Description

The Heavy Duty Industrial pressure transducers are leaders among pressure transducers. The flush type diaphragm allows the use with aggressive, viscous or crystallizing process fluids. This type of sealing permits cleaning of the process connections without residues. 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 the are extremely resistant against aggressive media and fulfill the most demanding requirements. 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-3391...



Applications

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

Technical Data

Technology: flush diaphragm
 Pressure type: gauge pressure
 Housing: stainless steel
 Connections: G 1/2 male
 Wetted parts: stainless steel; O-ring NBR (option FPM/ FKM or EPDM)
 Sensor: thinfilm
 Max. temperature: storage: -40 ... +80 °C
 medium: -20 ... +105 °C
 ambient: -20 ... +80 °C
 Pressure limitation: 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 (at reference conditions)
 Electrical connection: connector DIN EN 175301-803 Form A (DIN 43 650 A), optional: cable outlet 1,5 m, connector M12x1
 Auxiliary power: 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)/0,02A (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
 Heating period: < 10 min
 Variability: zero-point -5 ... +20% and span -20 ... +5 % (setting via software)
 Compensated range: -20 ... +80 °C
 Temperature influence: on zero-point and span ± 0,1 % / 10 K
 Protection: IP 65 (IP 67 for cable / M12x1)

Accessory

Weld on Adapter for flush diaphragm transducer

Connection	Model
Weld on adapter G 1/2 female	MZB-ESAR15
Screw in adapter G 1 AG x G 1/2 female	MZB-ESAR25R15
Screw in adapter G 3/4 AG x G 1/2 female	MZB-ESAR20R15

Order Details Sensor (Example: SEN-3391 A105)

Model	Output	Measuring range	Connection
SEN-3391... 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	without = plug Form A DIN EN 175301-803 Form A (DIN 43 650 A) incl. junction box 3 = plug M12x1 (4-pin, IP67) 5 = 2 m cable, IP67