

SS307 series ceramic pressure transmitters

- Corrosion resistance
- High accuracy and high stability
- Wide choice of measuring ranges
- Solid ceramic sensitive diaphragm
- Low cost, extreme extensive application range
- A wide range of pressure and electrical connections
- Thermally compensated, wide-range operating temperature



Descriptions

SS307 series ceramic pressure transmitters are designed based on the ceramic cell (Al₂O₃ 96%) and work following the piezoresistive principle. The signal conditioning electronics are mounted on one side of ceramic diaphragm where the Wheatstone bridge is screen printed, offer 4-20mA current output signal.

SS307 series ceramic diaphragm pressure transmitter is fully temperature compensated, this feature results in a very stable sensor under very harsh conditions. Thanks to the excellent chemical immunity of the ceramic material, the sensors are suitable for nearly all kinds of media. Typical applications: pressure calibration, compressors, dispensers, refrigerator, locomotive braking systems, hydraulic and pneumatic system equipment, Industrial process measurement and control, etc.

Technical data

Performance (EN 60770)

Accuracy	1%F.S. @25°C
	3%F.S. @-20~105°C
Response time	< 4 ms
Overload pressure	2.0 × F.S. (≤ 200 bar)
	1.5 × F.S. (> 200 bar)
Pressure range	0...1.0bar to 400bar
Pressure type	vented gauge

Electrical specifications

Signal	Supply	Connection(DIN43650A)
4-20mA Current output signal (2 wire)	12-30V	Pin 1: + supply Pin 2: + output Pin 3: Not used Earth: Not connected

Environmental conditions

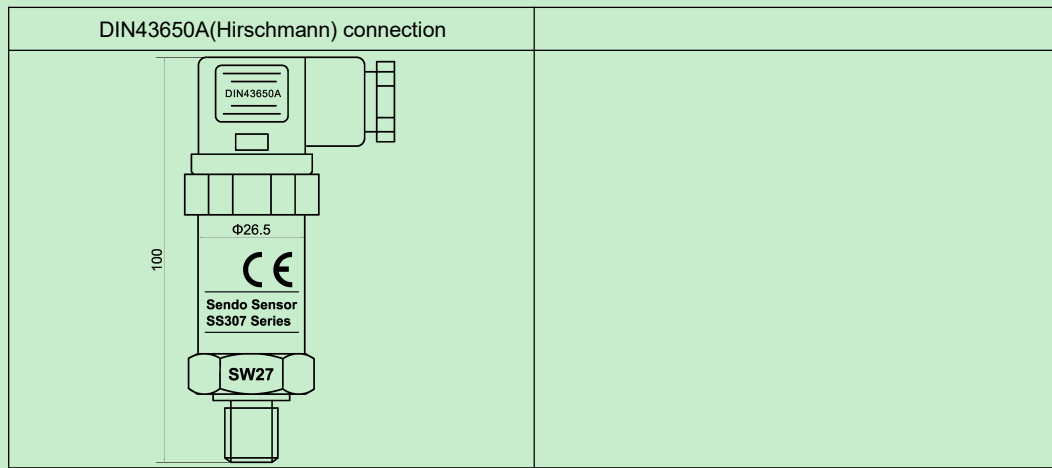
Medium temperature range	-20°C → +80°C
Ambient temperature range (depending on electrical connection)	-20°C → +80°C
Compensated temperature range	0°C → +80°C

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Mechanical configurations

Materials	Diaphragm	Ceramic cell(Al ₂ O ₃ 96%)
	Enclosure	Stainless steel 304
	Electrical connections	PA66
Weight (depending on pressure connection and electrical connection)		0.15 - 0.3 kg
Pressure connection	See page 2 (Ordering information)	
Electrical connection	DIN43650A(Hirschmann)	

Dimensions



Ordering information

EXAMPLE: **SS307 D 04 A**

1	Pressure range(bar)	D
	A(1bar) B(2bar) C(5bar) D(10bar) E(20bar) F(30bar) G(50bar) H(100bar) I(200bar) J(400bar) K(Other range is on request)	
2	Pressure connection	04
	01(1/4"NPT) 02(1/2"NPT) 03(1/8"NPT) 04(G1/4") 05(G1/2") 06(G1/8") 07(PT1/4") 08(PT1/2") 09(PT1/8") 10(Other pressure connection is on request)	
3	Cable length	A
	A None B 1m C 2m D 3m E 4m F 5m G 6m H Other length is on request	

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*Specifications subject to change without notice, the latest date sheet please contact: sales@sendo-sensor.com