

SS307 series ceramic pressure transmitters

- Corrosion resistance
- Reverse polarity protection
- High accuracy and high stability
- Wide choice of measuring ranges
- Solid ceramic sensitive diaphragm
- Output signals: 4-20mA and voltage output
- 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 added on one side of ceramic diaphragm where the Wheatstone bridge is screen printed, offer 4-20mA current output signal and also 0-10V or 0-5V voltage 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 most media. Typical applications: pressure calibration, compressors, dispensers, refrigerator, locomotive braking systems, hydraulic and pneumatic system equipment, Industrial process measurement and control, etc.

Technical data

Typical pressure and accuracy (Bar)

Rated range	2	5	10	20	30	50	100	200	400
Over pressure	4	10	20	40	60	100	200	400	600
Burst pressure	7	15	35	70	90	150	250	450	600
Accuracy 	±1.0%F.S.		±0.5%F.S.				±1.0%F.S.		

 Accuracy including linearity, hysteresis, repeatability @25°C

Electrical specifications

	4-20mA (Current output)	0-10V, 0-5V, 0.5-4.5V (Not Ratio-metric)
Supply voltage [UB]	12-36V	12-36V
Load [RL] (load connected to 0 V)	$RL \leq (UB-9.0V)/0.02 A$	---
Polarity protected	yes	yes
Short-circuit protected	yes	yes
Surge protected	yes	yes

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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
EMC - Emission	EN 61000-6-3
EMC - Immunity	EN 61000-6-1
Insulation resistance	>100 MΩ at 250 V

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 3 (Ordering information)	
Electrical connection	DIN43650A(Hirschmann)	

Dimensions

DIN43650A(Hirschmann) connection	

Electrical connections

	DIN43650A(Hirschmann) connection	Direct cable connection
4-20mA Current output signal (2 wire)	Pin 1: + supply Pin 2: + output Pin 3: Not used Earth: Not connected	Red: + supply Green/Yellow: + output
0-10V, 0-5V, 0.5-4.5V Voltage output signal (3 wire)	Pin 1: + supply Pin 2: - supply Pin 3: + output Earth: Not connected	Red: + supply Green: - supply Yellow: + output

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Ordering information

EXAMPLE: [SS307 D 04 A 01 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	Voltage supply	A
	A 12~36VDC B Other voltage supply is on request	
4	Output signal	01
	01 4~20mA 02 0.5~4.5V 03 0~5V 04 0~10V 05 Other output signal is on request	
5	Cable length	A
	A None B 1m C 2m D 3m E 4m F 5m G 6m H Other length is on request	

Optional

Customized dimension	Material of wetted parts stainless steel 316L or Ti	
Housing filled with silicon gel	Pulse snubber	

Contact us

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