

SS309 series piezoresistive differential pressure transmitters

Descriptions

SS309 series piezoresistive differential pressure transmitter has very rugged stainless steel structure, suitable to the differential pressure measurement of petroleum, chemical industry, power station and also used for flow measurement.

A high performance piezoresistive differential pressure transducer is sealed by O-ring inside as the pressure sensing element. Silicone oil is filled in the transducer housing between the silicon die and stainless steel 316L diaphragm. The measured pressure act on the silicon chip through the diaphragm and silicone oil. The output signal generated by the piezoresistive bridge sensor is amplified into a useable voltage or 4-20mA output signal.

Parameters

Supply voltage	15~28VDC	
Output signal	4~20mA	Voltage output signal is on request
Accuracy	0.5%F.S. @25°C (incl. non-linearity, hysteresis and repeatability)	
Long term stability	≤0.2%F.S./Year	
Compensated temp	-10~70°C	
Operating temp	-20~100°C	
Temp coefficient	±0.03%F.S./°C	
Response time	≤4ms	

Pressure & overload (Unit: bar)

Pressure	0.2	0.35	0.7	1.0	2.0	3.5	7.0	10	16	20	25	40	60
Overload	1.0	1.0	2.5	2.5	5.0	5.0	10	15	20	30	30	50	80
Static pressure	16	16	16	16	16	16	16	25	25	40	40	50	80

Mechanical configurations

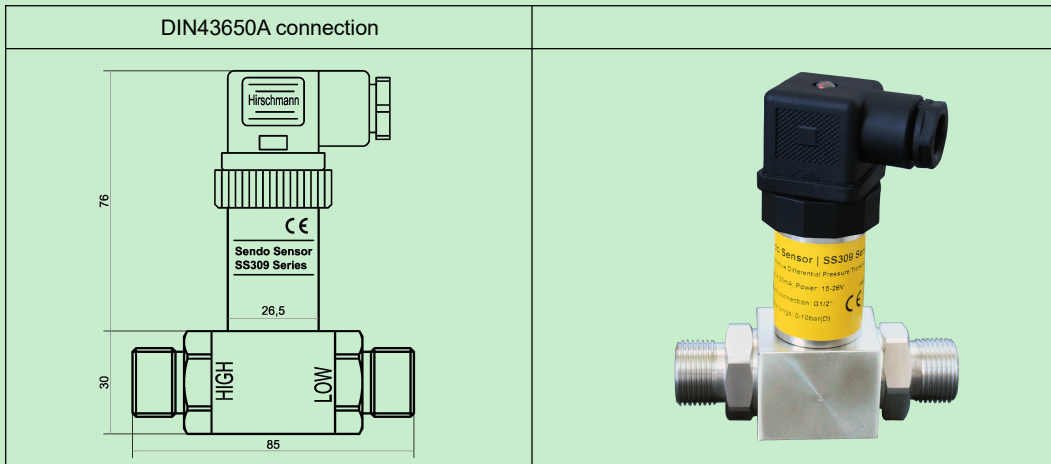
Pressure connection	G1/2"	M20*1.5
Electrical connection	Hirschmann(DIN 43650A)	
Sealing rating	IP65	
Housing	Stainless steel 304	
Diaphragm	Stainless steel 316L	

Fixing & suggestions

- 1, SENDO suggest to install a tri-valve between the measured point and transmitter to make the media adding on the transmitter's positive and negative cavities slowly.
- 2, SENDO suggest to make two pressure ports horizontally to reduce installation direction effect.

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Drawings



Electrical connections

Pin 1: + supply	Pin 2: + output
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Ordering information

EXAMPLE: **SS309 H 01 A 01**

1	Pressure range(Unit: bar) A(0~0.2) B(0~0.35) C(0~0.7) D(0~1.0) E(0~2.0) F(0~3.5) G(0~7.0) H(0~10) I(0~16) J(0~20) K(0~25) L(0~40) M(0~60)	H
2	Signal & supply 01 4-20mA(15-28Vdc) 02 0-10V(24Vdc) 03 0-5V(24Vdc) 04 0.5-4.5V(24Vdc) 05 0.5-4.5V(5Vdc)	01
3	Pressure connection A G1/2" B G1/4" C 1/2"NPT D 1/4"NPT E M20*1.5 F Other pressure connection is on request	A
4	Cable length 01 None 02 1m 03 2m 04 3m 05 4m 06 5m 07 Other length is on request	01

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