

# SS309 series piezoresistive differential pressure transmitters

- CE conformity
- Stainless steel 316L diaphragm
- Zero and span adjustable(4-20mA)
- Reverse polarity protection(4-20mA)
- Piezoresistive pressure sensor, oil filled
- Output signals: 4-20mA and voltage output



## Descriptions

SS309 series piezoresistive differential pressure transmitter is very rugged, 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 die 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.

SS309 series is used for differential pressure measurement of petroleum, chemical industry, power station and also used for flow measurement.

## Parameters

Supply voltage	15~28VDC	Other supply is on request
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

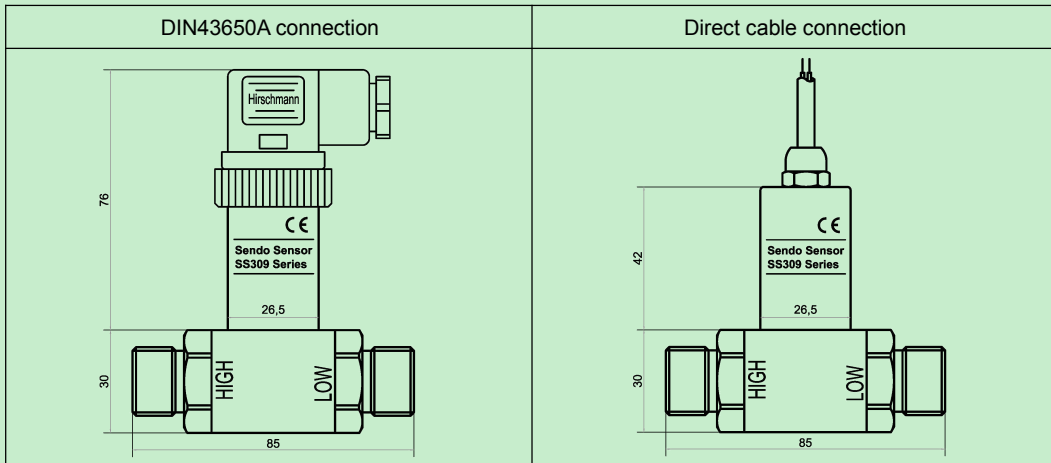
Pressure connection	G1/2"	M20*1.5
Electrical connection	Hirschmann(DIN 43650A)	
Sealing rating	IP65	
Housing	Stainless steel 304	
Diaphragm	Stainless steel 316L	

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## Fixing & suggestions

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

## Drawings



## Electrical connections

DIN43650A connection(4-20mA)	Cable connection(4-20mA)
Pin 1: + supply	Red: + supply
Pin 2: + output	Green: + output

## Ordering information

EXAMPLE: **SS309 H 01 A 01 A**

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

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## Contact us

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\*Specifications subject to change without notice, the latest date sheet please contact: [sales@sendo-sensor.com](mailto:sales@sendo-sensor.com)