

# SS108 series piezoresistive pressure transducers

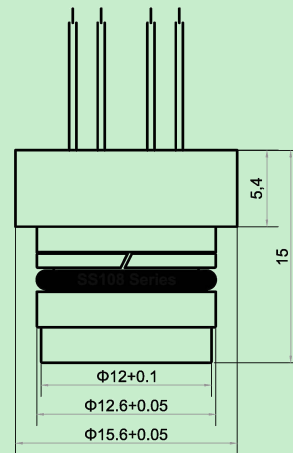
- Standard size Ø13\*15mm
- High accuracy and reliability
- All stainless steel 316L structure
- 1.0mA, 1.5mA constant current supply
- 5VDC, 10VDC constant voltage supply
- 0-70°C temperature compensation range
- Isolated construction, able to test various media
- Absolute, vented gauge and sealed gauge pressure



## Descriptions

SS108 series isolated piezoresistive pressure transducers are extremely durable, even when exposed to fast pressure peaks. They have been developed especially for the measurement of high pressures such as 100bar, 600bar, covered a wide pressure range from 400Kpa to 100Mpa(4bar to 1000bar), gauge, sealed gauge and absolute pressure is optional.

SS108 series are designed by the piezoresistive technology, silicone oil filled with stainless steel isolated structure. They have been widely used in the world for various of applications: air/gas, liquid, level, air conditioner and cooling equipment, aviation and navigation inspection, etc.



## Pressure ranges (typical)

Vented gauge(defining atmospheric pressure as zero) (Unit: Bar)

Range	6.0	10	16	25	
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Absolute(defining absolute vacuum as zero) (Unit: Bar)

Range	6.0	10	16	25	40
	60	100	160	250	400
	600	1000			

Sealed gauge(defining standard atmospheric pressure as zero) (Unit: Bar)

Range	10	16	25	40	60
	100	160	250	400	600
	1000				

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## Technical data

Power supply	1.5mADC (typical)	5VDC, 10VDC is on request
Zero output	±2mV	
Span output	100±20mV (typical)	
Accuracy	0.25%F.S. (typical)	
Overload	2.0*F.S. (<250Bar)	
	1.5*F.S. (≥250Bar)	
Temperature compensation	0~70°C	
Operating temperature	-20~100°C	
Storage temperature	-40~125°C	
Zero thermal error	≤0.02 %F.S./°C	
Sensitivity thermal error	≤0.02 %F.S./°C	
Bridge resistance	2.3KΩ~4KΩ	
Insulation	100MΩ/250VDC	
Vibration	20g/(20~5000Hz)	
Endurance	>100 x 10 <sup>6</sup> F.S. cycles	
Stability	≤0.2% F.S./Year	

## Constructions

O-ring	Viton(Ø10*1.5mm)	
Wetted parts	Stainless steel 316L	
Housing	Stainless steel 316L	
Filling liquid	Silicone oil	
Electrical connection	10cm silicone sheathed wires	Kovar pins is on request
Diameter	Ø13mm	
Height	15mm	
Weight	15g	

## Electrical connections

wires		Pins(1)		Pins(2)	
Color	Function		PIN1: Supply +		PIN1: Supply +
Red	Supply +		PIN2: Output -		PIN2: Output +
Black	Supply -		PIN3: Supply -		PIN3: Supply -
White	Output +		PIN4: Supply -		PIN4: Supply -
Blue	Output -		PIN5: Output +		PIN5: Output -

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## Ordering information

EXAMPLE: **SS108 B 01 B 01**

1	Pressure range(Bar)	<b>B</b>
	A(6.0) B(10) C(16) D(25) E(40) F(60) G(100) H(160) I(250) J(400) K(600) L(1000) M(Other range or unit is on request)	
2	Pressure type	<b>01</b>
	01 Vented gauge 02 Absolute 03 Sealed gauge	
3	Electrical connection	<b>B</b>
	A 4Kovar pins(1) B 4Wires C 5Kovar pins(1) D 5Wires E 4Kovar pins(2) F 5Kovar pins(2)	
4	Power supply	<b>01</b>
	01 1.5mADC 02 5VDC 03 10VDC 04 Other supply is on request	

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