

SS103 series piezoresistive pressure transducers

- Standard size $\text{Ø}19 \times 5.0\text{mm}$
- High accuracy and reliability
- Stainless steel 316L wetted parts
- 1.0mA, 1.5mA constant current supply
- 5VDC, 10VDC constant voltage supply
- Non-temperature compensated(SS103)
- External temperature compensation(SS103T)
- Isolated construction, able to test various media
- Absolute, vented gauge and sealed gauge pressure



Descriptions

The SS103 series piezoresistive pressure sensors are the most economic version for pressure ranges from 1bar to 60bar(100KPa to 6.0MPa). They have a height of only 5.0 mm without compromising performance and quality, the standard version is supplied with connecting pins. Same as SS100 and SS102 series, they have 19mm diameter and follow the working principle of piezo-resistance effect. Typical applications: aviation electronics, meteorology, servo controls, robotics, sanitary, etc.

Pressure ranges (typical)

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

Range	1.0	2.5	4.0	6.0	10	16
	25	40	60			

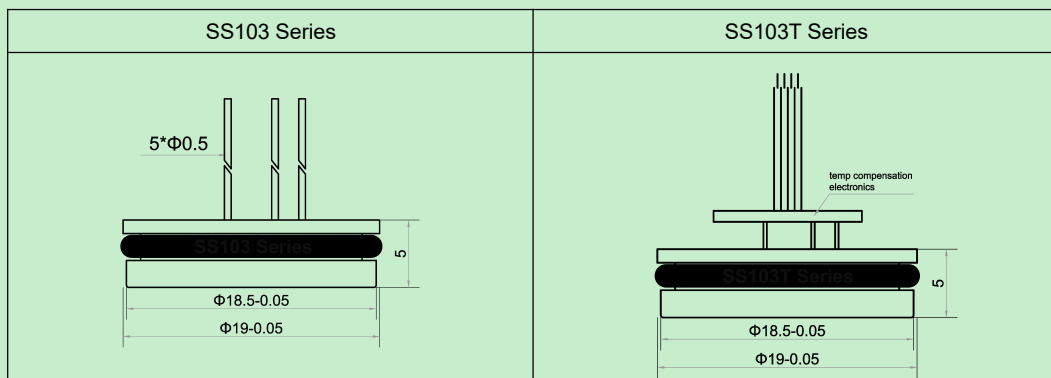
Absolute(defining absolute vacuum as zero) (Unit: Bar)

Range	1.0	2.5	4.0	6.0	10	16
	25	40	60			

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

Range	10	16	25	40	60	
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Dimensions



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Technical data

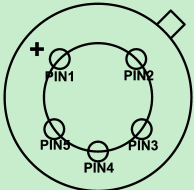
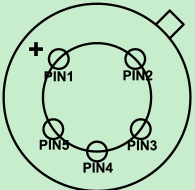
Power supply	1.5mADC (typical)	5VDC, 10VDC is on request
Zero output	Not adjusted (SS103 series)①	±2mV (SS103T series)
Span output	100±20mV (typical)	
Accuracy(0~6bar...25bar)	0.5%F.S. @25° C (typical)	
Overload	2.0*F.S.	
Temperature compensation	None(SS103 series)	0~70°C (SS103T series)
Operating temperature	-20~100°C	
Storage temperature	-40~125°C	
Bridge resistance	2.3KΩ~4KΩ	
Insulation	100MΩ/250VDC	
Vibration	20g/(20~5000Hz)	
Endurance	>100 x 10 ⁶ F.S. cycles	
Stability	≤0.2% F.S./Year	

①: The zero output signal need to be adjusted by our clients.

Constructions

O-ring	Viton(Ø16*1.7mm)
Wetted parts	Stainless steel 316L
Housing	Stainless steel 304
Filling liquid	Silicone oil
Electrical connection	Kovar pins
Diameter	Ø19mm
Height	5.0mm
Weight	9g

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: [SS103 E 01 A 01](#)

1	Pressure range(Bar)	E
	A(1.0) B(2.5) C(4.0) D(6.0) E(10) F(16) G(25) H(Other range or unit is on request)	
2	Pressure type	01
	01 Vented gauge 02 Absolute 03 Sealed gauge	
3	Electrical connection	A
	A 5Kovar pins(1) B 5Kovar pins(2)	
4	Power supply	01
	01 1.5mADC 02 5VDC 03 10VDC 04 Other supply is on request	

Optional

External temperature compensation(SS103T series)	
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*Specifications subject to change without notice, the latest date sheet please contact: sales@sendo-sensor.com