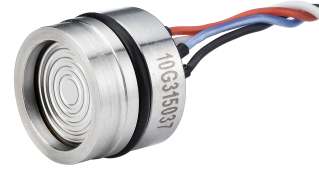


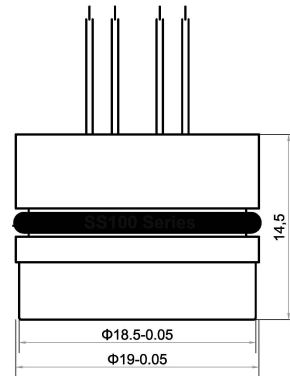
SS100 Series Piezoresistive Pressure Transducers

- Standard size Ø19*15mm
- High accuracy and reliability
- Stainless steel 316L housing
- Stainless steel 316L diaphragm
- 1.0mA, 1.5mA constant current supply
- 5VDC, 10VDC constant voltage supply
- 0-80°C temperature compensation range
- Isolated construction, able to test various media
- Absolute, vented gauge and sealed gauge pressure



Descriptions

SS100 Series piezoresistive pressure transducers cover all pressure ranges from 100 mbar to 1000 bar. A high-sensitivity piezoresistive silicon chip is used for pressure sensing. The chip is protected against ambient influences by a stainless steel housing sealed with a concentrically corrugated diaphragm. The housing is filled with silicone oil so as to ensure the transfer of the pressure from the diaphragm to the sensing component. Several millions of these pressure transducers are in use world-wide in a variety of different applications. Main fields of application are: Level technology, pneumatics, hydraulics, avionics.



Pressure ranges(typical)

Vented gauge(defining atmospheric pressure as zero)

Unit: Bar

Range	-1.0	-0.35	-0.2	0.2	0.35	1.0
	2.5	4.0	6.0	10	16	25

Absolute(defining absolute vacuum as zero)

Unit: Bar

Range	1.0	2.5	4.0	6.0	10	16
	25					

Sealed gauge(defining standard atmospheric pressure as zero)

Unit: Bar

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

SS100 Series Piezoresistive Pressure Transducer

Technical data

Power Supply	1.5mADC(typical)	5VDC, 10VDC is on request
Zero Output	±2mV	
Span Output	100±20mV(typical)	
Accuracy	0.25%FS	
Overload	2.0*FS(<250Bar); 1.5*FS(≥250Bar)	
Temperature Compensation	0~80°C	
Operating Temperature	-20~100°C	
Storage Temperature	-40~125°C	
Zero Thermal Error	≤0.02 %FS/°C	
Sensitivity Thermal Error	≤0.02 %FS/°C	
Bridge Resistance	2.3KΩ~4KΩ	
Insulation	100MΩ/250VDC	
Vibration	20g/(20~5000Hz)	
Endurance	>100 x 10 ⁶ FS Cycles	
Stability	≤0.2% FS/Year	

O-Ring	Viton(Ø16*1.7mm)	
Diaphragm	Stainless steel 316L	
Housing	Stainless steel 316L	
Filling Liquid	Silicone oil	
Electrical Connection	10cm silicone sheathed wires	Kovar pins is on request
Diameter	Ø19mm	
Height	14.5mm	
Weight	15g	

Electrical connections

wires			pins		
Color	Function		PIN1: Supply+	PIN3: Supply-	PIN4: Supply-
Red	Supply +	Pressure ≤4Mpa	PIN2: Output-		
Black	Supply -		PIN5: Output+		
White	Output +	Pressure >4Mpa	PIN2: Output+		
Blue	Output -		PIN5: Output-		

SS100 Series Piezoresistive Pressure Transducer

Ordering informations

EXAMPLE: [SS100 J 01 B 01](#)

1	Pressure Range(Bar) A(-1.0) B(-0.35) C(-0.2) D(0.2) E(0.35) F(1.0) G(2.5) H(4.0) I(6.0) J(10) K(16) L(25) M(40) N(60) O(100) P(160) Q(250) R(400) S(600) T(1000) U(Other range or unit is on request)	J
2	Pressure Type 01 Vented gauge 02 Absolute 03 Sealed gauge	01
3	Electrical Connection A 4Kovar Pins B 4Wires C 5Kovar Pins D 5Wires	B
4	Power Supply 01 1.5mADC 02 5VDC 03 10VDC 04 Other	01

Contact us

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