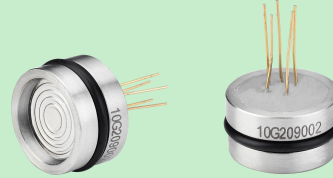


SS102 series piezoresistive pressure transducers

- Standard size Ø19*10mm
- High accuracy and reliability
- Stainless steel 316L housing
- Stainless steel 316L wetted parts
- 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

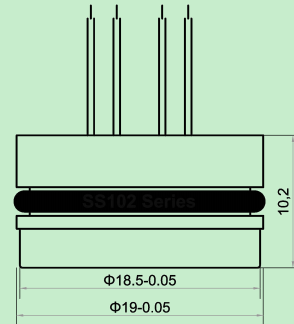


Descriptions

The SS102 Series isolate pressure transducers cover the pressure ranges from 100 mbar to 60bar(10KPa to 6.0MPa).

It use a high-stability silicon chip which is protected by 316L stainless steel diaphragm and silicone oil as the sensing part. The applied pressure acts on the stainless steel diaphragm, then is passed to the silicon chip through silicone oil. The output signal has a linear relation with the applied pressure.

Typically applications: gas pressure, level measurement, industrial process control, and other media compatible with stainless steel 316L.



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	40	60			

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

Range	10	16	25	40	60	
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SS102 series piezoresistive pressure transducers

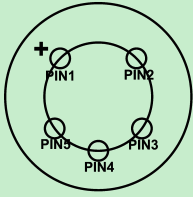
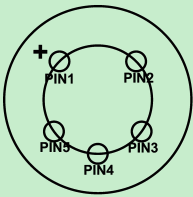
Technical data

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.	
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 ⁶ F.S. cycles	
Stability	≤0.2% F.S./Year	

Constructions

O-ring	Viton(Ø16*1.7mm)	
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	Ø19mm	
Height	10.2mm	
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 -

SS102 series piezoresistive pressure transducers

Ordering information

EXAMPLE: [SS102 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(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(1) B 4Wires C 5Kovar pins(1) D 5Wires E 4Kovar pins(2) F 5Kovar pins(2)	B
4	Power supply 01 1.5mADC 02 5VDC 03 10VDC 04 Other supply is on request	01

Contact us

Company	Ninghai sendo sensor co., Ltd	
Email	sales@sendo-sensor.com	
Email	cain.chen@sendo-sensor.com	
Address	Floor 5, building 2, no.48 jiuquan road, jianggan district, 310000 Hangzhou, China	
Website	http://www.pressuresensorsuppliers.com	http://www.sendo-sensor.com
Skype: sendosensor	We Chat: chenjie4884	WhatsApp: +8613616574884
Tel: 0086-0574-27725960	Fax: 0086-0574-27725970	Phone: 0086-13616574884

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