

SS101 series piezoresistive pressure transducers

- Ø12.6mm diameter
- High accuracy, high reliability
- All stainless steel 316L structure
- 1.0mA, 1.5mA constant current supply
- 0 to 70°C temperature compensation range
- Isolated construction, able to test various media
- Absolute, gauge, sealed gauge pressure is optional



Descriptions

SS101 series piezoresistive silicon pressure transducer designed with a high quality silicon chip as the sensing component, all stainless steel 316L isolated structure with a concentrically corrugated diaphragm, well suited for medium pressure range or large pressure range from 10bar to 1000bar(1MPa to 100MPa).

SS101 series is very compact in dimension, diameter: 12.6mm, height: 9.0mm, is very suitable for these space limited applications. It offer 1.5mA, 1.0mA current supply, the pressure is linear to the mV output signal. Typical applications: measurement pressure of gas and liquid, hydraulic pressure, industrial process control, etc.

Parameters

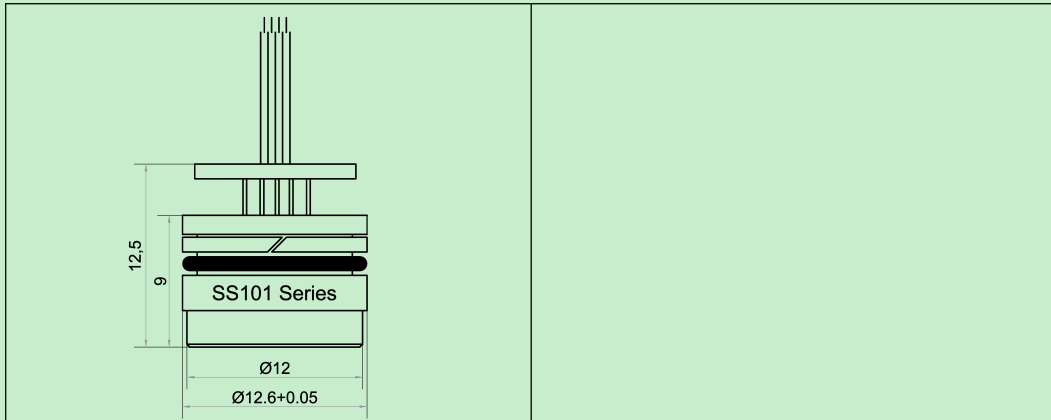
Power supply	1.5mADC (typical)
Zero output	±2mV
Span output	100±20mV (typical)
Accuracy	0.25%F.S. (typical)
Measuring range	0~1MPa...100MPa
Overload	2.0*F.S. (<25MPa)
	1.5*F.S. (≥25MPa)
Temperature compensation	0~70°C
Operating temperature	-20~100°C
Storage temperature	-40~125°C
Zero thermal error	±0.02%F.S./°C

Constructions

O-ring	Viton(Ø10*1.5mm)	
Wetted parts	Stainless steel 316L	
Housing	Stainless steel316L	
Filling liquid	Silicone oil	
Electrical connection	10cm silicone sheathed wires	Kovar pins is on request
Diameter	Ø12.6mm	
Height	12.5mm	
Weight	10g	

SS101 series piezoresistive pressure transducers

Drawings



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 -		

Ordering information

EXAMPLE: **SS101 A 01 B 01**

1	Pressure range	A
	A(1MPa) B(1.6MPa) C(2.5MPa) D(4MPa) E(6MPa) F(10MPa) G(16MPa) H(25MPa) I(40MPa) J(60MPa) K(100MPa) L(Other range is on request)	
2	Pressure type	01
	01 Vented gauge 02 Absolute 03 Sealed gauge	
3	Electrical connection	B
	A 4Kovar pins B 4Wires C 5Kovar pins D 5Wires	
4	Power supply	01
	01 1.5mADC 02 1.0mADC	

SS101 series piezoresistive pressure transducers

Contact us

Company name	Ninghai sendo sensor co., Ltd	
Company address	Floor 5, building 2, no.48 jiuahuan road, jianggan district, 310000 Hangzhou, China	
Website	http://www.sendo-sensor.com	
Email(sales)	sales@sendo-sensor.com	
Email(Mr Chen)	cain.chen@sendo-sensor.com	
Skype	sendosensor	
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