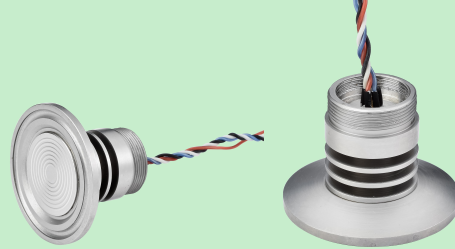


SS112 series sanitary pressure transducers

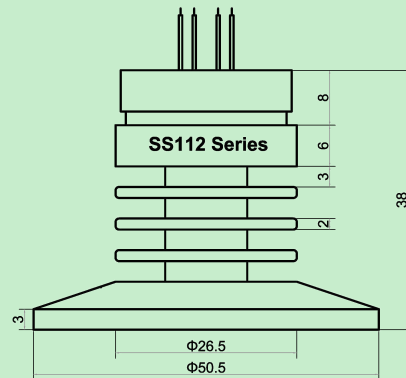
- 1.5" or 2" clamp fitting
- Integrated with cooling fins
- High accuracy and reliability
- Stainless steel 316L wetted parts
- Working temperature up to 125°C
- 1.0mA, 1.5mA constant current supply
- 5VDC, 10VDC constant voltage supply
- 0-70°C temperature compensation range
- Isolated construction, able to test various media
- Absolute, vented gauge and sealed gauge pressure



Descriptions

SS112 series sanitary pressure transducers adopt the piezoresistive technology, isolated structure with silicone oil filled, typical 1.5" or 2" clamp fitting pressure connection, no pressure port, no blocking problems. The pressure acts on the 316L stainless steel diaphragm, the silicon chip's resistance value will be changed when the pressure changes, and produce a mV output signal which is proportional to the applied pressure.

Mainly design with sanitary purposes such as monitoring of the food, the brewing, medicine and production processes of the dairy.



Pressure ranges (typical)

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

Range	-1.0	-0.35	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				

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

Range	10	16	25	40		
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SS112 series sanitary pressure transducers

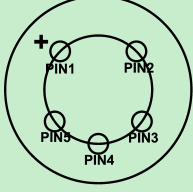
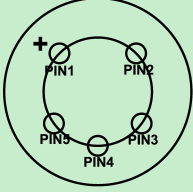
Technical data

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	-20~125°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

Wetted parts	Stainless steel 316L	
Housing	Stainless steel 304	
Filling liquid	Silicone oil	
Electrical connection	10cm silicone sheathed wires	Kovar pins is on request
Pressure connection	1.5" (50.5mm)	2" (64mm) is on request

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 -

SS112 series sanitary pressure transducers

Ordering information

EXAMPLE: **SS112 H 01 B 01 A**

1	Pressure range(Bar) A(-1.0) B(-0.35) C(0.35) D(1.0) E(2.5) F(4.0) G(6.0) H(10) I(16) J(25) K(40) L(Other range or unit is on request)	H
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	Pressure connection 01 1.5"(50.5mm) 02 2"(64mm) 03 Other connection is on request	01
5	Power supply A 1.5mADC B 5VDC C 10VDC D Other supply is on request	A

Optional

Medium temperature 125-300°C	Customized dimension	
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Contact us

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