

SS114 series flush diaphragm pressure transducers

Features

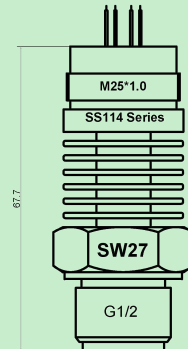
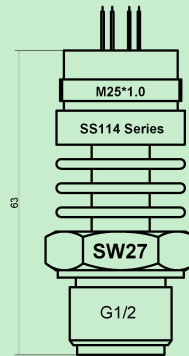
- Integrated with cooling fins
- High accuracy and reliability
- Stainless steel 316L wetted parts
- Working temperature up to 125°C
- 1.0mA, 1.5mA constant current supply
- 5VDC, 10VDC constant voltage supply
- 0-70°C temperature compensation range
- Isolated construction, able to test various media
- G1/2", NPT1/2", M20 various pressure connection
- Absolute, vented gauge and sealed gauge pressure



Descriptions

SS114 series flush pressure transducers with cooling fins integrated are designed for the high temperature applications, typically 3pcs of cooling fins make the transducer's working temperature up to 125°C, more cooling fins, higher media temperature, the maximum temperature can be up to 300°C.

SS114 series are designed by piezoresistive sensor technology, the silicon chip is protected by 316L stainless steel housing and silicone oil filled in the isolated housing, meet "clean in place" (CIP) and "sterilize in place" (SIP) maintenance procedures demand. Typically for using in food, process and industrial applications where the media is either viscous, or is otherwise liable to block the port of a conventional pressure transducer with a recessed diaphragm or pressure port.



Pressure ranges (typical)

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

Range	2.5	4.0	6.0	10	16	25
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Absolute(defining absolute vacuum as zero) (Unit: Bar)

Range	2.5	4.0	6.0	10	16	25
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Sealed gauge(defining standard atmospheric pressure as zero) (Unit: Bar)

Range	10	16	25	40	60
	100	160	250	400	

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Technical data

Power supply	1.5mADC	5VDC(optional)	10VDC(optional)
Zero output	0±2mV①		
Span output	100±20mV①		
Accuracy	0.25%F.S.①		
Overload range	2.0 × F.S.(<25MPa)		
	1.5 × F.S.(≥25MPa)		
Compensated temp range	0°C → 70°C		
Operating temp range	-20°C → 125°C		
Storage temp range	-40°C → 125°C		
Zero thermal error	≤0.02% F.S./°C		
Sensitivity thermal error	≤0.02% F.S./°C		
Stability	≤0.2% F.S./Year		
Input impedance	2.3KΩ → 4KΩ		
Insulation resistance	>100 MΩ at 250 V		
Vibration	20g/(20~5000Hz)		
Endurance	>100 × 10 ⁶ F.S. cycles		

①: The zero output, span output and accuracy may different if the supply power, measuring range and pressure type is different, please contact us if you need more details.

Constructions

Wetted parts	Stainless steel 316L	More options see Page 3
Housing	Stainless steel 304	More options see Page 3
Filling liquid	Silicone oil	
Electrical connection	10cm silicone sheathed wires	Kovar pins(optional)
Pressure connection	See Ordering information in page 3	

Electrical connections

wires		Pins connection mode 1		Pins connection mode 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: **SS114 PD 01 A 01**

1	Pressure range(bar)	PD
	PA(2.5) PB(4.0) PC(6.0) PD(10) PE(16) PF(25) PG(40) PH60) PI(100) PJ(160) PK(200) PL(250) PM(400) CA(-1...15) CB(-1...24) X(Other pressure range or unit is on request)	
2	Pressure type	01
	01(Vented gauge) 02(Absolute) 03(Sealed gauge)	
3	Electrical connection②	A
	A(4Wires) B(5Wires) C(4Pins mode 1) D(4Pins mode 2) E(5Pins mode 1) F(5Pins mode 2)	
4	Pressure connection	01
	01(G1/2") 02(G1") 03(1/2"NPT) 04(1"NPT) 05(PT1/2") 06(PT1") 07(M20*1.5) 08(Other connection is on request)	
5	Power supply	A
	A(1.5mADC) B(5VDC) C(10VDC) D(Other supply is on request)	

②: 4Wires and 4Pins connection: the zero signal is set by SENDO SENSOR before leave factory.

②: 5Wires and 5Pins connection: the zero signal can be set by clients.

②: Pins Mode1 and Mode2: please see the details in the Electrical connection in page 2.

Optional(please contact us for more details)

1	Integrate the MCP9700 temp sensor
	A(YES) B(NO)
2	Material of diaphragm
	01(Titanium) 02(Tantalum) 03(Hastelloy-C)
3	Material of wetted parts
	A(Titanium) B(Tantalum) C(Hastelloy-C)
4	Medium temperature
	01(150°C) 02(200°C)

Contact us

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