

SS121C24 series piezoresistive standard pressure transducers

Features

- Customized size
- High accuracy, high reliability
- Stainless steel 316L diaphragm
- 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, gauge and sealed gauge pressure is optional



O-ring sealing inside

Maximum pressure up to 600bar

Descriptions

SS121C series low cost OEM pressure transducers are designed with Sendo diameter Ø19mm sensor, which is mounted with the temp compensation resistors in a stainless steel housing. The sensor floats on an O-ring seal and is therefore free of any housing stresses(all stainless steel structure is on request).

SS121C series are often used in development of larger OEM projects, they offer an option of integrate the MCP9700 temperature sensor, so the transducers can give both pressure and temperature signal with a great working performance, the transducer offers cable as the standard electrical connection configuration, all these make the SS121C series very rugged and more suitable to used in the industrial field directly.

Parameters

Power supply	1.5mADC	5VDC(optional)	10VDC(optional)
Zero output	0±2mV⓪		
Span output	100±20mV⓪		
Accuracy	0.25%F.S.⓪		
Measuring range	0...0.1bar to 600bar(positive pressure) -1...0bar, -0.1...0bar(negative pressure) -1...3bar, -1...15bar(compound pressure)		
Overload range	2.0 × F.S.(< 25MPa)		
	1.5 × F.S.(≥ 25MPa)		
Compensated temp range	0°C → 70°C		
Operating temp range	-20°C → 100°C		
Storage temp range	-40°C → 125°C		
Zero 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		

⓪: 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.

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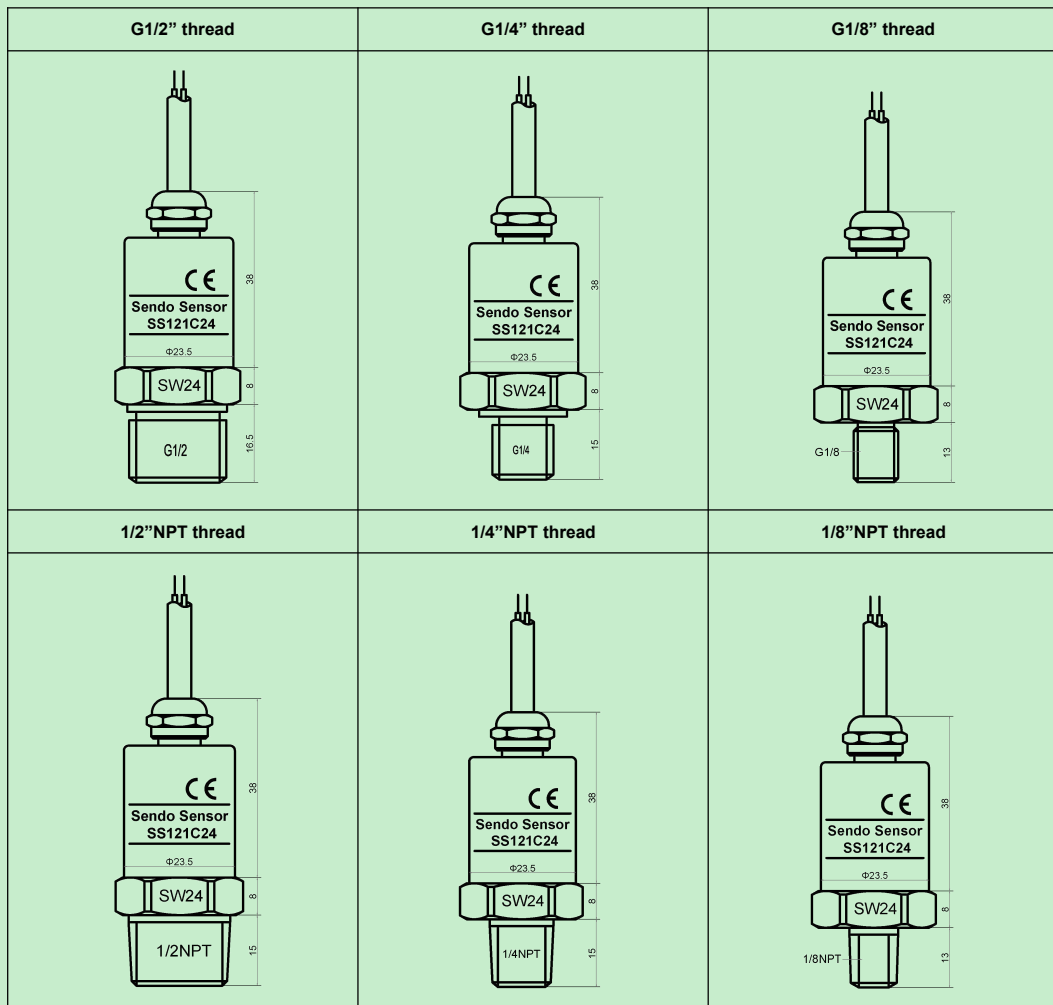
Mechanical characteristics

Materials	Diaphragm	Stainless steel 316L(typical)	More options see Page 3
	Housing	Stainless steel 304(typical)	Stainless steel 316L(optional)
	Pressure connection	Stainless steel 304(typical)	More options see Page 3
	Filling liquid	Silicone oil	
	Sealing inside	O-ring Viton	
Pressure connection	See Ordering information in page 3		
Electrical connection	Cable		
Weight	100-200g(depending on pressure connection and electrical connection)		

Electrical connections

Wire color	Red	Black	Yellow	Blue	
Function	Supply +	Supply -	Output +	Output -	

Drawings



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Ordering information

EXAMPLE: **SS121C24 PJ 01 B 01 A 01**

1	Pressure range(bar)	PJ
	NA(-1...0) NB(-0.7...0) NC(-0.35...0) ND(-0.2...0) NE(-0.1...0) PA(0.1) PB(0.2) PC(0.35) PD(0.7) PE(1.0) PF(1.6) PG(2.5) PH(4.0) PI(6.0) PJ(10) PK(16) PL(25) PM(40) PN(60) PO(100) PP(160) PQ(200) PR(250) PS(400) PT(600) CA(-1...0.6) CB(-1...1.5) CC(-1...3) CD(-1...5) CE(-1...9) CF(-1...15) CG(-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 connection	B
	A(4Wires) B(5Wires)	
4	Power supply	01
	01(1.5mADC) 02(5VDC) 03(10VDC) 04(Other supply is on request)	
5	Pressure connection	A
	A(1/4"NPT) B(1/2"NPT) C(1/8"NPT) D(G1/4") E(G1/2") F(G1/8") G(PT1/4") H(PT1/2") I(PT1/8") J(Other pressure connection is on request)	
6	Cable length	01
	01(1m) 02(2m) 03(3m) 04(4m) 05(5m) 06(None) 07(Other length is on request)	

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 pressure connection
	A(Titanium) B(Tantalum) C(Hastelloy-C) D(Stainless steel 316L)
4	Laser welding sealing structure inside
	01(YES) 02(NO)

Contact us

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