

SS121E24 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



NO O-ring used inside

All stainless steel integrated structure

Descriptions

SS121E24 series piezoresistive pressure transducers are developed for pressure applications that involve measurement of hostile media in harsh environments compatible with 316L stainless steel. They are calibrated and temperature compensated, available for use with either a constant voltage or current source. They feature a variety of pressure connections to allow use in a wide range of OEM equipment.

SS121E24 series are rugged and reliable transducers, all stainless steel structure, no O-ring used for sealing, cover the pressure range from -100KPa to 40MPa, recommend for use in a wide variety of pressure sensing applications where corrosive liquids or gases are monitored.

Technical data

Performance (EN 60770)

Power supply	1.5 mADC (typical)	5 VDC (optional)	10 VDC (optional)
Zero output	0 ± 2 mV ①		
Span output	100 ± 20 mV ①		
Accuracy	0.25% F.S. ①		
Measuring range	Minimum range: 0.2 bar Maximum range: 400 bar See more details in page 3 (part number chart)		
Overload range	2.0 × F.S. (≤ 200 bar)		
	1.5 × F.S. (> 200 bar) and burst 400 bar		
Compensated temp range	0 → 70 °C		
Operating temp range	-20 → 100 °C		
Storage temp range	-40 → 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	2.3 → 4 KΩ		
Insulation resistance	> 100 MΩ at 250 V		

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.

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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)	Stainless steel 316L (optional)
	Filling liquid	Silicone oil	
	Sealing inside	NOT USED, All stainless steel welding structure	
Pressure connection	1/4" BSP, 1/4" NPT, 9/16-18 UNF, M14 x 1.5		More options see page 3
Electrical connection	Wire connection, Pin connection		More options see page 3
Weight	100-200g (depending on pressure connection and electrical connection)		

Electrical connections

wires		4-Pins / 5-Pins connection mode	
Color	Function		PIN1: Supply +
Red	Supply +		PIN2: Output -
Black	Supply -		PIN3: Supply -
White	Output +		PIN4: Supply - ②
Blue	Output -		PIN5: Output +

②: PIN4 is not used for 4-Pins connection

Dimensions (Unit: mm)

G1/2" thread	G1/4" thread	G1/8" thread
1/2"NPT thread	1/4"NPT thread	1/8"NPT thread

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Part number chart (How to order)

PART NUMBER REQUIRED: **SS121E24.PL.01.A.01.A (EXAMPLE)**

1	Pressure range(bar)	PL
	NA(-1...0) NB(-0.7...0) NC(-0.5...0) ND(-0.35...0) NE(-0.2...0) PB(0...0.2) PC(0...0.35) PD(0...0.5) PE(0...0.7) PF(0...1) PG(0...1.6) PH(0...2) PI(0...2.5) PJ(0...4) PK(0...6) PL(0...10) PM(0...16) PN(0...25) PO(0...40) PP(0...60) PQ(0...100) PR(0...160) PS(0...200) PT(0...250) PU(0...300) PV(0...350) PW(0...400) CA(-1...0.6) CB(-1...1.5) CC(-1...3) CD(-1...5) CE(-1...9) CF(-1...15) CG(-1...24) 1Z(Other pressure range or unit is on request)	
2	Pressure type	01
	01(Vented gauge) 02(Absolute) 03(Sealed gauge)	
3	Electrical connection ③	A
	A(4-Wires) B(5-Wires) C(4-Pins) D(5-Pins)	
4	Power supply	01
	01(1.5mADC) 02(2mADC) 03(5VDC) 04(10VDC) 4Z(Other supply is on request)	
5	Pressure connection	A
	A(1/4" NPT male) B(1/2" NPT male) C(1/8" NPT male) D(G 1/4" male) E(G 1/2" male) F(G 1/8" male) G(PT 1/4" male) H(PT 1/2" male) I(PT 1/8" male) J(9/16-18 UNF male) K(7/16-20 UNF male) L(1/2-20 UNF male) M(3/8-24 UNF male) N(M10 x 1.25 male) O(M14 x 1.5 male) P(M20 x 1.5 male) Q(1/8" NPT female) R(1/4" NPT female) S(9/16-18 UNF female) T(7/16-20 UNF female) 5Z(Other pressure connection is on request)	

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

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

NON- REQUIRED: **SS121E24.PL.01.A.01.A - V4E (EXAMPLE)**

1	Material of diaphragm	V4E
	V4D(Titanium) V4E(Tantalum) V4F(Hastelloy-C)	
2	Material of wetted parts (metal parts, not include the diaphragm)	V5G
	V5G(Stainless steel 316L)	
3	Pulse snubber / Bumper (Anti cavitation, pressure spikes, or pulses)	V6H
	V6H(Assemble into the pressure hole)	

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Contact us

Company	Ningbo Sendo Electronic Technology CO., LTD	
Email	sales@sendo-sensor.com	
Email	cain.chen@sendo-sensor.com	
Factory	No 15, Yongxing 2nd Rd, Chengbei Industrial Park, Huizhou District, 245900 China	
Office	Building. 1#1108, Wante business center, Hi-Tech, 315040 China	
Website	http://www.pressuresensorsuppliers.com	http://www.sendo-sensor.com
Skype: sendosensor	WeChat: 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