

# SS121E24 series piezoresistive standard pressure transducers

- Customized size
- High accuracy, high reliability
- Stainless steel 316L diaphragm
- 1.0mA, 1.5mA constant current supply
- 5VDC, 10VDC constant voltage supply
- 0 to 70°C temperature compensation range
- All stainless steel structure, no O-ring inside
- Isolated construction, able to test various media
- Absolute, gauge and sealed gauge pressure is optional



## 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 20MPa, recommend for use in a wide variety of pressure sensing applications where corrosive liquids or gases are monitored.

## Parameters

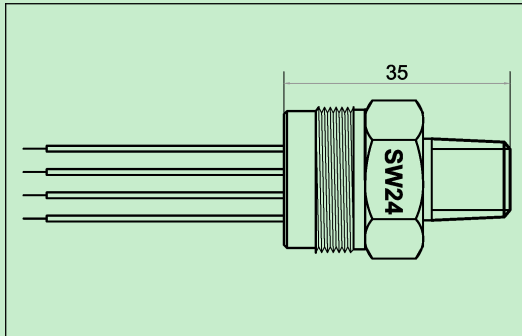
Power supply	1.5mADC (typical)	5VDC is on request
Zero output	±2mV	
Span output	100±20mV (typical)	
Accuracy	0.25%F.S. (typical)	
Measuring range	0...0.1bar to 200bar -1...0bar, -1...1bar(negative pressure)	
Overload	2.0*F.S.	
Temperature compensation	0~70°C	
Operating temperature	-20~100°C	
Storage temperature	-40~125°C	
Zero thermal error	±0.02%F.S./°C	
Input impedance	3KΩ~6KΩ	

## Constructions

Pressure connection	See "ordering information"	
Diaphragm	Stainless steel 316L	
Housing	Stainless steel 304	
Filling liquid	Silicone oil	
Electrical connection	10cm silicon rubber flexible wires	Kovar pins is on request

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## Drawings & electrical connections

	<b>Color</b>	<b>Function</b>
	Red	Supply +
	Black	Supply -
	White	Output +
	Blue	Output -

## Ordering information

EXAMPLE: **SS121E24 J 01 A 01**

1	Pressure range(bar)	<b>J</b>
	A(-1.0) B(-0.35) C(-0.2) D(0.2) E(0.35) F(1.0) G(2.5) H(4.0) I(6.0) J(10) K(16) L(25) M(40) N(60) O(100) P(160) Q(200) R(Other range or unit is on request)	
2	Pressure type	<b>01</b>
	01 Vented gauge 02 Absolute 03 Sealed gauge	
3	Pressure connection	<b>A</b>
	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)	
4	Power supply	<b>01</b>
	01 1.5mADC 02 5VDC 03 10VDC 04 Other supply is on request	

Optional

Material of wetted parts stainless steel 316L or Ti	
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\*Specifications subject to change without notice, the latest date sheet please contact: sales@sendo-sensor.com