

## SS121C 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 or lase welding sealing

Maximum pressure up to 1000bar

### Descriptions

SS121C series media isolated oem pressure transducer is developed from SENDO SS121E24, SS121E27 and SS121V27 series, it has rugged stainless steel construction and offers an option of integrate the MCP9700 temperature sensor, so the transducers can give both pressure and temperature signal. SS121C series offers cable as the standard electrical connection configuration, the mV signal gives the highest frequency response and the lowest power consumption, no signal conditioning, no amplifiers, filters, transistors or any other active component that might affect the natural performance of the transducer sensing element, but due to the low voltage level of millivolt output signals the transducer is not generally the best solution over long distances and therefore are mainly used on test rigs or inside an instrument where the cable lengths are relatively short.

### 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: 0.1 bar Maximum range: 1000 bar More details please contact us		
Overload range	2.0 × F.S. (≤ 250 bar)		
	1.5 × F.S. (> 250 bar), 1.2 × F.S. (1000bar)		
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)	
	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	FKM / Viton (typical)	EPDM (optional)
All stainless steel welding structure (optional)			
Pressure connection	Please reference to SS121E24, SS121E27 and SS121V27 series		
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 -

### 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