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 1000bar

Descriptions

SS121V27 series piezoresistive standard pressure transducer is designed with Sendo diameter Ø19 mm sensor without signal conditioning, the sensor floats on an O-ring seal and is therefore free of any housing stresses, maximum pressure range up to 100 MPa (absolute & gauge).

The SS121V27 series offers two types of electrical connections, pins or wires is optional, has optimum media isolation for use with both harsh and benign media, a variety of versions with respect to process connection and mechanical connection to a case can be designed according to the request, is the ideal basis for pressure transmitters, pressure switches or digital pressure instruments.

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		
	See more details in page 3 (part number chart)		
Overload range	2.0 × F.S. (< 250 bar)		
	1.5 × F.S. (≥ 250 bar); 1.2 × F.S. (1000 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	$2.3 \rightarrow 4 \text{ K}\Omega$		
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.

Mechanical characteristics

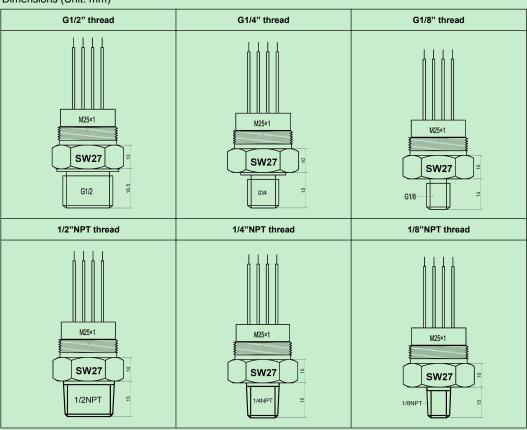
Materials	Diaphragm Stainless steel 316L (typical)		More options see Page 3		
	Housing Stainless stee		nless steel 304 (typical)	St	ainless steel 316L (optional)
	Pressure connection		Stainless steel 304 (typica	al)	Stainless steel 316L (optional)
	Filling liquid		Silicone oil		
	Sealing inside		FKM / Viton (typical)	EPDM (optional)	
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			More options see page 3	
Weight	100-200g (depending on pressure connection and electrical connection)				

Electrical connections

wii	res	5Pins connection mode 1		5Pins connection mode 2		
Color	Function		PIN1: Supply +		PIN1: Supply +	
Red	Supply +	+ O PINE	PIN2: Output -	+ D D PIN2	PIN2: Output +	
Black	Supply -		PIN3: Supply -	(PIN1 PIN2	PIN3: Supply -	
White	Output +	PINS PINS	PIN4: Supply - 2	PIN3 PIN3	PIN4: Supply - ②	
Blue	Output -	PĬÑ4	PIN5: Output +	PĬN4	PIN5: Output -	

^{2:} PIN4 is not used for 4Pins connection

Dimensions (Unit: mm)



Part number chart (How to order)

PART NUMBER REQUIRED: SS121V27.PL.01.A.01.A (EXAMPLE)

1	Pressure range(bar)	PL			
'	Fressure range(bar)	r.			
	NA(-10) NB(-0.70) NC(-0.50) ND(-0.350) NE(-0.20) NF(-0.10) PA(00.1)				
	PB(00.2) PC(00.35) PD(00.5) PE(00.7) PF(01) PG(01.6) PH(02)				
	PI(02.5) PJ(04) PK(06) PL(010) PM(016) PN(025) PO(040)				
	PP(060) PQ(0100) PR(0160) PS(0200) PT(0250) PU(0300)				
	PV(0350) PW(0400) PX(0500) PY(0600) PZ(01000)				
	CA(-10.6) CB(-11.5) CC(-13) CD(-15) CE(-19) CF(-115) CG(-124)				
	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(4Wires) B(5Wires) C(4Pins mode 1) D(4Pins mode 2) E(5Pins mode 1)				
	F(5Pins mode 2)				
4	Power supply	01			
	01(1.5mADC) 02(2mADC) 03(5VDC) 04(10VDC) 4Z(Other supply is on request)				
5	Pressure connection	Α			
	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) J(1/2-20 UNF male) L(3/8-24 UNF male) M(M10 x 1.25 male)				
	N(M14 x 1.5 male) O(M20 x 1.5 male) 5Z(Other pressure connection is on request)				

- 3: 4Wires and 4Pins connection: the zero signal is set by SENDO SENSOR before leave factory.
- 3: 5Wires and 5Pins connection: the zero signal can be set by clients.
- 3: Pins Mode1 and Mode2: please see the details in the Electrical connection in page 2.

NON- REQUIRED: SS121V27.PL.01.A.01.A - V4E (EXAMPLE)

1	Material of O-ring sealing	V2B			
	V2B(EPDM)				
2	Material of diaphragm	V4E			
	V4D(Titanium) V4E(Tantalum) V4F(Hastelloy-C)				
3	Material of wetted parts (metal parts, not include the diaphragm) V5G				
	V5G(Stainless steel 316L)				
4	Pulse snubber / Bumper (Anti cavitation, pressure spikes, or pulses)				
	V6H(Assemble into the pressure hole)				

Contact us

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