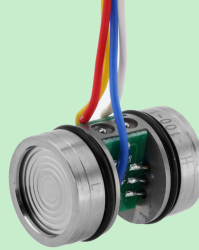


SS120 series differential pressure transducers

Features

- High accuracy, high reliability
- All stainless steel 316L structure
- 1.0mA, 1.5mA constant current supply
- 5VDC, 10VDC constant voltage supply
- 0-70°C temperature compensation range
- Wider differential pressure range 0.2 to 60 bar
- Isolated construction, able to test various media



Descriptions

SS120 series piezoresistive silicon differential pressure sensor, works following the principle of piezoresistive effect, a high-sensitivity piezoresistive silicon chip is used for pressure sensing. All metal parts in contact with the pressure media are made of stainless steel 316L. The piezoresistive differential pressure sensor is high stability, good reliability, high static pressure, widely used to measure liquid and gas differential pressure.

Pressure & overload (Unit: bar)

Pressure	0.2	0.35	0.7	1.0	2.0	3.5	7.0	10	16	20	25	40	60
Overload	1.0	1.0	2.5	2.5	5.0	5.0	10	15	20	30	30	50	80
Static pressure	16	16	16	16	16	16	16	25	25	40	40	50	80

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	0...0.2 bar to 60 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		
Vibration	20g / (20 to 5000 Hz)		
Endurance	> 100 x 10 ⁶ F.S. cycles		

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.

SS120 series differential pressure transducers

Mechanical characteristics

Diaphragm	Stainless steel 316L	
Housing	Stainless steel 316L	
Filling liquid	Silicone oil	
O-ring	FKM / Viton (typical) (Ø16 × 1.7 mm)	EPDM (optional)
Electrical connection	10 cm silicone sheathed wires	
Diameter	Ø19 mm	
Height	28.6 mm	
Weight	45 g	

Drawings & electrical connections

	Wire Color	Function
	Red	Supply +
	Black	Supply -
	White	Output +
	Blue	Output -

SS120 series differential pressure transducers

Part number chart (How to order)

PART NUMBER REQUIRED: **SS120.PL.01 (EXAMPLE)**

1	Pressure range(bar)	PL
	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) 1Z(Other pressure range or unit is on request)	
2	Power supply	01
	01(1.5mADC) 02(2mADC) 03(5VDC) 04(10VDC) 2Z(Other supply is on request)	

NON- REQUIRED: **SS120.PL.01 - V4E (EXAMPLE)**

1	Material of diaphragm	V4E
	V4D(Titanium) V4E(Tantalum) V4F(Hastelloy-C)	

Contact us

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