SS108 series piezoresistive pressure transducers

Features

- Standard size Ø13 × 15mm
- High accuracy and reliability
- Stainless steel 316L housing
- Stainless steel 316L diaphragm
- 1.0mA, 1.5mA constant current supply
- 0-70°C temperature compensation range
- Isolated construction, able to test various media
- Absolute, vented gauge and sealed gauge pressure



Descriptions

SS108 series isolated piezoresistive pressure transducers are extremely durable, even when exposed to fast pressure peaks. They have been developed especially for the measurement of high pressures such as 100bar, 600bar, covered a wide pressure range from 1Mpa to 100Mpa (10bar to 1000bar), gauge, sealed gauge and absolute pressure is optional.

SS108 series are designed by the piezoresistive technology, silicone oil filled with stainless steel isolated structure. They have been wildly used in the world for various of applications: air/gas, liquid, level, air conditioner and cooling equipment, aviation and navigation inspection, etc.

Pressure ranges (typical)

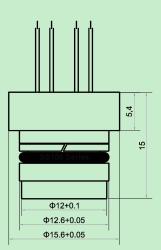
Vented gauge (defining atmospheric pressure as zero) (Unit: bar)

Range 10 16 25

Absolute (defining absolute vacuum as zero) (Unit: bar)

Range	10	16	25	40	60	100
	160	250	400	600	1000	

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Technical data

Performance (EN 60770)

Power supply	1.5 mADC (typical) 1 mADC (optional)				
Zero output	0 ± 2 mV ①				
Span output	100 ± 20 mV ①				
Accuracy	0.25% F.S. 1	0.25% F.S. 1			
Overload range	2.0 × F.S. (≤ 250 bar)				
	1.5 × F.S. (> 250 bar), 1.2 × F.S. (1000bar)				
Compensated temp range	$0 \rightarrow 70 \ ^{\circ}C$				
Operating temp range	-20 → 100 °C				
Storage temp range	$-40 \rightarrow 125 \ ^{\circ}C$				
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				
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.

Mechanical characteristics

Diaphragm	Stainless steel 316L		
Housing	Stainless steel 316L		
Filling liquid	Silicone oil		
O-ring	FKM / Viton (Ø10 × 1.5 mm)		
Electrical connection	10 cm silicone sheathed wires	Kovar pins (optional)	
Diameter	Ø13 mm		
Height	15 mm		
Weight	15 g		

Electrical connections

wi	res	5Pins connection mode 1		5Pins connection mode 2	
Color	Function		PIN1: Supply +		PIN1: Supply +
Red	Supply +	+	PIN2: Output -	+	PIN2: Output +
Black	Supply -		PIN3: Supply -		PIN3: Supply -
White	Output +		PIN4: Supply - 2		PIN4: Supply - 2
Blue	Output -	PĪN4	PIN5: Output +	PIN4	PIN5: Output -

2: PIN4 is not used for 4Pins connection

SS108.T01.05.05 SENDO SENSOR ® | MEASURING THE WORLD FORM SENDO VISIT US FROM WWW.SENDO-SENSOR.COM

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Part number chart (How to order)

PART NUMBER REQUIRED: SS108.PL.01.A.01 (EXAMPLE)

1	Pressure range(bar)	PL				
	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) 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)	А				
	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)					

(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.

Contact us

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