

SS122 series submersible pressure transducers for level and depth applications

Descriptions

SS122 series submersible pressure transducers use piezoresistive technology, double O-ring sealed with IP68 grade structure, silicone oil filled inside, suitable for various kinds of liquid level or depth measurement.

The sensors are designed to offer mV output signal with current supply(1.5mA, 1.0mA) or voltage supply (3VDC, 5VDC) from pressure ranges 100 mBar up to 20 Bar (corresponding to water column depths of 1 m to 200 m).



Technical data

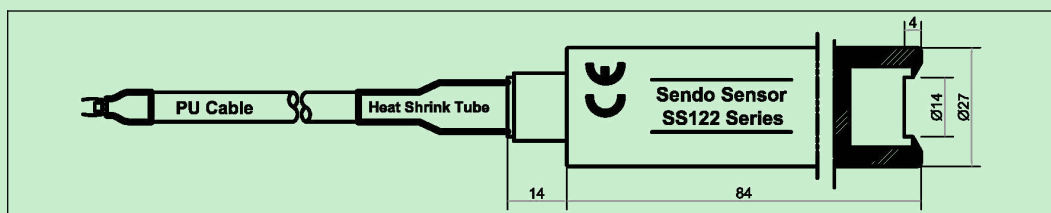
Power supply	1.5mADC	5VDC(optional)	10VDC(optional)
Zero output	0±2mV①		
Span output	100±20mV①		
Accuracy	0.25%F.S.①		
Measuring range	0...100mbar to 20bar		
Overload range	2.0 × F.S.		
Compensated temp range	0°C → +50°C		
Medium temp range	-20°C → +85°C		
Ambient temp range	-20°C → +80°C		
Zero thermal error	≤0.02% F.S./°C		
Stability	≤0.2% F.S./Year		
Input impedance	2.3KΩ → 4KΩ		
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.

Constructions

Diaphragm	Stainless steel 316L	
Housing	Stainless steel 304(typical)	Stainless steel 316L(optional)
Filling liquid	Silicone oil	
O-ring	Viton(Ø16*1.7mm)	
Cable	PU(typical)	PE(optional)
Sealing rating	IP68(fulfilled together with mating connector)	

Dimensions(Unit: mm)



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Installation and precautions

- The installation place should be easy to operation and fixing
- When installation, the metal probe should sink to the bottom of the container
- The installation place should be away from the heat source as far as possible
- The installation place should be away from the vibration source as far as possible
- If the customer need to connect with other cable, waterproofing measures must be taken
- When the sensor put into the water, it is the best that the sensor can be fixed, and away from the inlet

Precautions for safety use

- Clean the metal probe(sensor) regularly to avoid block the pressure port
- The cable is a special waterproof cable, abrasion, puncture, and cut the cable is not allowed
- The wiring should strict reference to the electrical connection, wrong wiring will cause damage to the sensor
- A stainless steel 316L diaphragm is in the front part of the sensor, artificially foreign body touch is not allowed

Ordering information

EXAMPLE: [SS122 D 04 A 01 A](#)

1	Pressure range	D
	A(1m) B(2m) C(3m) D(4m) E(5m) F(6m) G(7m) H(8m) I(9m) J(10m) X(Other range is on request)	
2	Cable length	04
	01(2m) 02(5m) 03(8m) 04(10m) 05(12m) 06(15m) 07(20m) 08(25m) 09(30m) 10(Other length is on request)	
3	Test medium	A
	A(Water) B(Diesel) C(Other medium is on request)	
4	Density	01
	01(1g/cm ³) B(0.85g/cm ³) C(Other density is on request)	
5	Power supply	A
	A(5VDC) B(10VDC) C(1.5mA) D(1.0mA)	

Contact us

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