

## SS122 series submersible pressure transducers for level and depth applications

- Output signal: mV
- Protective cap included
- Stainless steel 316L diaphragm
- IP68 grade, hermetically sealed
- All stainless steel integrated structure
- Pressure ranges from 0.05 up to 20 bar
- Various power supply: 1.5mADC, 5VDC, 10VDC



### Descriptions

SS122 series submersible pressure transducers use piezoresistive technology, oil filled, all stainless steel integrated structure with IP68 grade, suitable for liquid level and depth measurement. Their all stainless steel, hermetically sealed housing makes them suitable for immersion in most industrial liquids and oils, are designed to give accurate readings at pressure ranges from 50 mBar up to 20 Bar (corresponding to water column depths of 0.5 m to 200 m).



SS122 series are designed to offer mV output signal with 1.5mA, 1.0mA, 3VDC or 5VDC supply. The electrical connection is a special designed PU cable with air tube and the pressure connection part is an exposed 316L stainless steel diaphragm, no pressure port and no blocking problems, easy for daily maintenance. The all-welded design eliminates the need for an O-Ring seal, thereby eliminating potential leak paths. Typical applications including water and sewage treatment plants, water level monitoring at reservoirs/dams, down-hole water wells.

### Technical data

#### Performance (EN 60770)

Accuracy	±0.25%
Response time	< 1 ms
Overload pressure	2 × F.S.
Pressure range	0~5mbar...20bar
Pressure type	vented gauge
Stability	≤0.2%F.S./Year
Temp coefficient	±0.03%F.S./°C

#### Environmental conditions

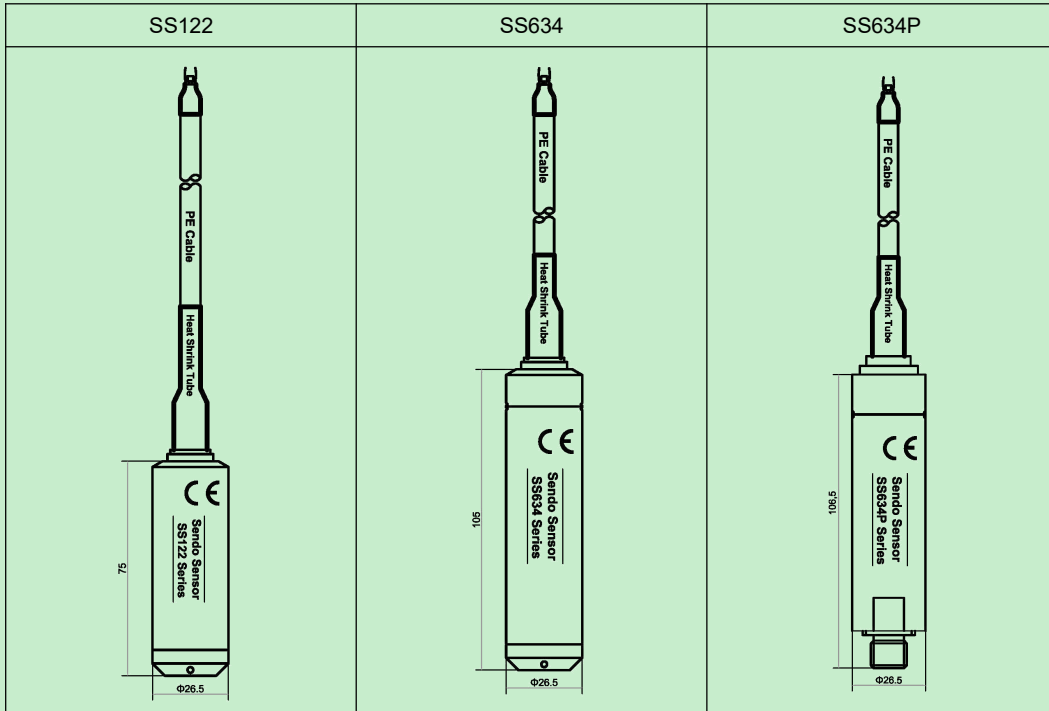
Medium temperature range	-20°C → +85°C
Ambient temperature range	-20°C → +85°C
Compensated temperature range	0°C → +60°C

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### Mechanical characteristics

Materials	Diaphragm	Stainless steel 316L
	Enclosure	Stainless steel 304
	Cable	PU
Weight (depending on cable length)		0.5 - 2.0 kg
Sealing rating		IP68

### Dimensions



## 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

**SS122 series submersible pressure transducers for level and depth applications****Ordering information**EXAMPLE: [SS122 01 B 01 A 03](#)

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

Optional

Lightning protection	FEP cable	Customized dimension
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