

## SS634 series submersible pressure sensors for level and depth applications

- CE conformity
- Protective cap included
- Stainless steel 316L diaphragm
- Hermetically sealed, IP68 grade
- All stainless steel structure, oil filled
- Various power supply: 5VDC, 12~36VDC
- Output signals: 4-20mA, 0-10V, 0-5V output
- AK Fluids US silicon oil, nontoxicity, good bio-compatibility
- Pressure ranges in gauge or absolute from 0.05 up to 20 bar



### Descriptions

SS634/634P series submersible pressure sensors 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 almost all kinds of 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).

The electrical connection is a special designed PU cable with air tube and the pressure connection part is an exposed 316L stainless steel corrugated 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.

SS634 series are designed with amplified signals, typical 4-20mA output or 0-10V, 0-5V voltage output.

SS634P series is fitted with a welded G1/4" pressure connection (other pressure connection is on request), as standard to give the best in media compatibility, available with standard voltage and 4-20mA current outputs.



### Technical data

Performance (EN 60770)

Accuracy @25°C (incl. non-linearity, hysteresis and repeatability)	±0.5% F.S.
Response time	< 4 ms
Overload pressure	2 × F.S.
Pressure range	0~5mbar...20bar
Pressure type	vented gauge
Long term stability	≤0.2%F.S./Year
Temperature coefficient	±0.03%F.S./°C

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### Environmental conditions

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

### 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

SS122	SS634	SS634P

## 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

**SS634 series submersible pressure sensors for level and depth applications****Ordering information**EXAMPLE: **SS634 01 B 01 A 01 B**

1	Pressure range	<b>01</b>
	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>B</b>
	A 2m B 5m C 8m D 10m E 15m F 20m G Other length is on request	
3	Test medium	<b>01</b>
	01 Water 02 Diesel 03 Other medium is on request	
4	Density	<b>A</b>
	A 1g/cm <sup>3</sup> B 0.85g/cm <sup>3</sup> C Other density is on request	
5	Output signal	<b>01</b>
	01 4~20mA 02 0.5~4.5V 03 1~5V 04 Other output is on request	
6	Power supply	<b>B</b>
	A 5VDC B 12~36VDC C Other supply is on request	

Optional

lightning protection	Accuracy 0.25%	FEP cable
Customized dimension		

**Contact us**

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\*Specifications subject to change without notice, the latest date sheet please contact: [sales@sendo-sensor.com](mailto:sales@sendo-sensor.com)