

SS635 series submersible pressure sensors for level and depth applications

SS635 series submersible pressure sensors are designed by piezoresistive technology, enhanced double O-ring(viton) structure guarantee the IP68 grade protection, suitable for liquid level or depth measurement. The hermetically sealed housing makes the sensor suitable for immersion in almost all kinds of industrial liquids and oils.



SS635 series is fitted with a traditional M20*1.5 pressure connection (various pressure connections/screw can be customized by SENDO powerful customization system), as standard to give the best in media compatibility, available with standard voltage and 4-20mA current outputs, give accurate readings at pressure ranges from 100 mBar.



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...10mbar to 20bar |
| Pressure type | vented gauge |
| Long term stability | ≤0.2%F.S./Year |
| Temperature coefficient | ±0.03%F.S./°C |

Electrical specifications

| | | | | |
|-------------------------|---------|----------|---------------|----------|
| Signal output | 4-20mA | 0-10V | 0-5V/0.5-4.5V | 0.5-4.5V |
| Supply voltage | 9-30Vdc | 11-30Vdc | 10-36Vdc | 5VDC |
| Polarity protected | yes | yes | yes | yes |
| Short-circuit protected | yes | yes | yes | yes |

Mechanical characteristics

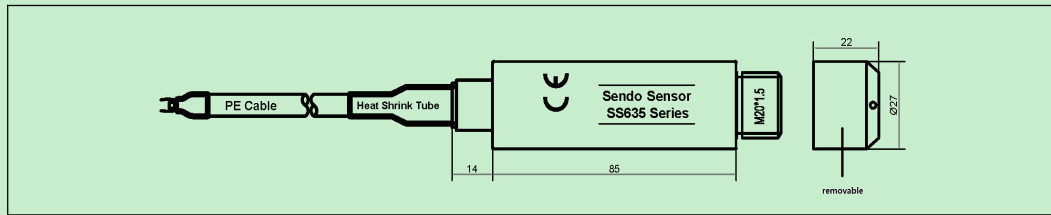
| | | |
|------------------------------------|--------------|----------------------|
| Materials | Diaphragm | Stainless steel 316L |
| | Enclosure | Stainless steel 304 |
| | Cable | PU |
| Sealing rating | IP68 | |
| Weight (depending on cable length) | 0.5 - 5.0 kg | |

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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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



WARNING: DO NOT USE THIS PRODUCT AS SAFETY OR EMERGENCY STOP DEVICE OR IN ANY OTHER APPLICATION WHERE FAILURE OF THE PRODUCT COULD RESULT IN PERSONAL INJURY OR EVEN DEATH.

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Ordering information

EXAMPLE: **SS635 04 D 01 A 01 A**

| | | |
|---|--|----|
| 1 | Pressure range | 04 |
| | 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 | D |
| | 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 ³ B 0.85g/cm ³ C Other density is on request | |
| 5 | Signal & supply | 01 |
| | 01 4-20mA(9-30Vdc) 02 0-10V(11-30Vdc) 03 0-5V(10-36Vdc) | |
| | 04 0.5-4.5V(10-36Vdc) 05 0.5-4.5V(5Vdc) | |
| 6 | Pressure connection | A |
| | A M20*1.5 B G1/4" C G1/2" D Other density is on request | |

Contact us

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