

## SS620 series 3.3Volt submersible level pressure sensors

### Descriptions

SS620 series 3.3Volt submersible level pressure sensor is developed to use with a 3.3 v power supply and give 0 to 3v or 0 to 2.5v analog signal at pressure ranges from 100mbar (corresponding to the water column depths of 1.0 m). These sensors are mature products in SENDO to measure liquid level and depth for many years. Their hermetically IP68 grade sealed housing makes them well suitable for immersion in almost all kinds of industrial liquids and oils compatible with stainless steel and viton.



The electrical connection is a special designed PU or PE 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. Typical applications including water and sewage treatment plants, water level monitoring at reservoirs, dams, down-hole water wells.

### Technical data

Performance (EN 60770)

Accuracy @ 25 °C	± 0.5% F.S. (incl. non-linearity, hysteresis and repeatability)	
Response time	< 4 ms	
Medium depth	Minimum range: 1 meter Maximum range: 50 meter See more details in <a href="#">page 3 (part number chart)</a>	
Overload pressure	2.0 × F.S.	
Pressure type	vented gauge	
Long term stability	≤ 0.2% F.S./Year	
Temperature coefficient	± 0.03% F.S./°C	

Electrical specifications

Output signal	0 - 3 V	0 - 2.5 V
Supply voltage	3.3 Vdc	3.3 Vdc
Polarity protected	yes	yes
Short-circuit protected	yes	yes
Zero and span adjustment	No	No

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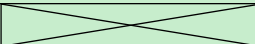
### Environmental conditions

Medium temp range	-20 → +85 °C
Ambient temp range	-20 → +80 °C
Compensated temp range	0 → +50 °C
EMC - Emission	EN 61000-6-3
EMC - Immunity	EN 61000-6-1
Insulation resistance	> 100 MΩ at 250 V

### Mechanical characteristics

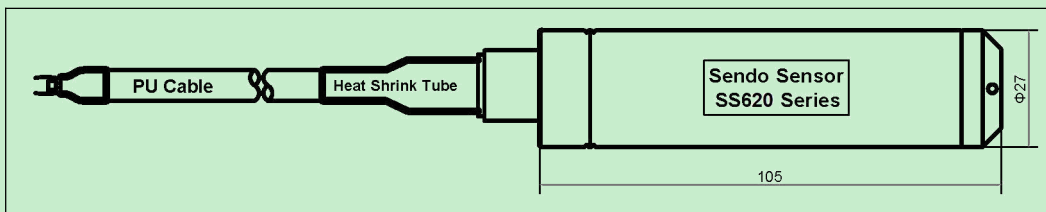
Materials	Diaphragm	Stainless steel 316L (typical)	More options see <a href="#">page 3</a>
	Housing	Stainless steel 304 (typical)	Stainless steel 316L (optional)
	Cable	PU (typical)	PE (optional)
	O-ring	FKM / Viton (typical)	EPDM (optional)
Weight	0.5 - 5.0 kg (depending on cable length)		
Sealing rating	IP 68 (fulfilled together with mating connector)		

### Electrical connections

4-20mA (current signal)	Red: Voltage +		Black: Signal +
0-10V/0-5V/0.5-4.5V	Red: Voltage +	Black: GND	Blue: Signal +

\*\*\* The green wire is connected to the shield layer of the cable, it is not a required option, leave it unconnected if you don't want to use it.

### Dimensions (Unit: mm)



## Installation and precautions

- The installation place should be easy to operation and fixing
- The installation place should be away from the inlet as far as possible
- 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
- When installation, the metal probe should sink to the bottom of the container and fixed

## Precautions for safety use

- Clean the metal probe (sensor) regularly to avoid block the pressure port
- A SS 316L diaphragm is exposed in the front part of the sensor, any artificial touch is not allowed
- The cable is special waterproof designed, abrasion, puncture, and cut the cable is strictly prohibited
- The wiring should strict reference to the electrical connection, wrong wiring will cause damage to the sensor

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### Part number chart (How to order)

PART NUMBER REQUIRED: **SS620.D.04.A.01.A (EXAMPLE)**

1	Medium depth	<b>D</b>
	A(1m) B(2m) C(3m) D(4m) E(5m) F(6m) G(7m) H(8m) I(9m) J(10m) K(15m) L(20m) M(25m) N(30m) O(35m) P(40m) Q(45m) R(50m) 1Z(Other range is on request)	
2	Cable length	<b>04</b>
	01(2m) 02(5m) 03(8m) 04(10m) 05(12m) 06(15m) 07(20m) 08(25m) 09(30m) 10(35m) 11(40m) 12(45m) 13(50m) 2Z(Other length is on request)	
3	Test medium	<b>A</b>
	A(Water) B(Diesel) 3Z(Other medium is on request)	
4	Density	<b>01</b>
	01(1g/cm <sup>3</sup> ) 02(0.85g/cm <sup>3</sup> ) 4Z(Other density is on request)	
5	Signal & supply	<b>A</b>
	A(0-3V & 3.3Vdc) B(0-2.5V & 3.3Vdc)	

NON- REQUIRED: **SS620.D.04.A.01.A - V3C**

1	Material of cable	<b>V1A</b>
	V1A(PE)	
2	Material of O-ring sealing	<b>V2B</b>
	V2B(EPDM)	
3	Material of housing	<b>V3C</b>
	V3C(Stainless steel 316L)	
4	Material of diaphragm	<b>V4E</b>
	V4D(Titanium) V4E(Tantalum) V4F(Hastelloy-C)	

### Contact us

Company	Ningbo Sendo Electronic Technology CO., LTD	
Email	sales@sendo-sensor.com	
Email	cain.chen@sendo-sensor.com	
Factory	No 15, Yongxing 2nd Rd, Chengbei Industrial Park, Huizhou District, 245900 China	
Office	Building. 1#1108, Wante business center, Hi-Tech, 315040 China	
Website	http://www.pressuresensorsuppliers.com	http://www.sendo-sensor.com
Skype: sendosensor	WeChat: chenjie4884	WhatsApp: +8613616574884
Tel: 0086-0574-27725960	Fax: 0086-0574-27725970	Phone: 0086-13616574884

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



**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.**