

# SSPS-PTM

Pressure transmitter



### **PRODUCTS FEATURES**

- Compact structure
- Digital Circuit Compensation
- Strong anti-interference, good long-term stability
- Small diameter, Small size, easy to install and use
- Measures absolute, gauge and sealed pressures
- Various electrical connections
- Wetted Diaphragm 316L
- Suitable for mass production

## 1. Product performance indicators

Table 1.Characteristics

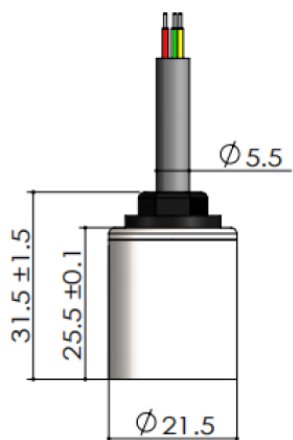
Parameter	Value
Measuring range	0~35kPa...25MPa
Pressure type	gauge pressure, absolute pressure, sealed pressure
Accuracy	0.5%FS
Hysteresis	0.1%FS
Repeatability	0.1%FS
Temperature drift	±1.5%FS(-20°C~85°C)
Response time	<10ms
Service life	≥10 <sup>6</sup> pressure cycles
Ambient temperature	-20°C~80°C
Medium temperature	-30°C~105°C
Storage temperature	-40°C~125°C
EMC	Immunity: IEC 61000-6-2, Interference: IEC 61000-6-3
Insulation resistance	≥ 100MΩ/500VDC (200MΩ/250VDC)
Anti-vibration performance	Sine curve: 20g, 25Hz~2kHz; IEC 60068-2-6 Random: 7.5grms, 5Hz~1kHz; IEC 60068-2-64
Shock proof	Shock: 100g/11ms; IEC 60068-2-27 Free Fall: 1m; IEC 60068-2-32
Degree of protection	IP65
Material	Wetted parts: ASTM S31603 (AISI304) Housing: ASTM S30400 (AISI304) Electrical connection: PA66
Net weight	50g~90g
Hexagonal size	HEX22

Table 2. Output and power supply

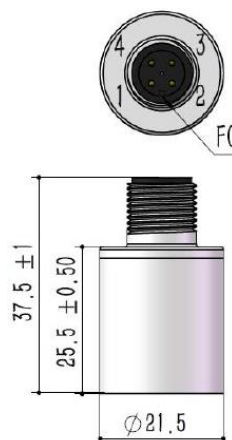
Code	01	07	06
Output	4~20mA	0~10V	0.5~4.5VR/M
Power supply	12~30VDC	12~30VDC	5VDC

2. Electrical connection and wiring method

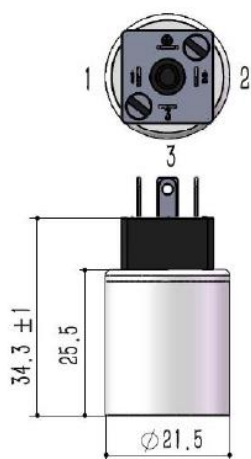
a)



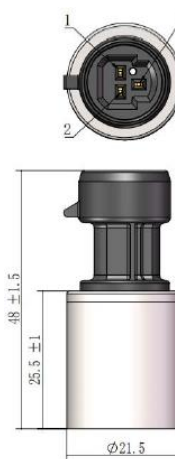
b)



c)



d)



**Figure 2.1.** Unit: mm; **a)** J3: 2-wire current: Red(power+), Green(current output); 3-wire voltage: Red(power+), Green (Common Ground), Yellow(voltage output);  
**b)** J4: 2-wire current: Pin1(power+), Pin2(current output), Pin3(floating); 3-wire voltage: Pin1(power+), Pin2(voltage output), Pin3(common ground);  
**c)** J6: 2-wire current: Pin1(power+), Pin2(current output), Pin3(floating), Ground(floating); 3-wire voltage: Pin1(power+), Pin2(common ground), Pin3(voltage output), Ground(floating);  
**d)** J7: 2-wire current: Pin1(power+), Pin2(current output), Pin3(floating); 3-wire voltage: Pin1(power+), Pin2(common ground), Pin3(voltage output)

### 3. Selection of damper

#### Application

Cavitation, liquid hammer and pressure spikes can occur in air or liquid systems with varying flow rates. Examples include rapid closing of valves or starting and stopping of pumps. These problems can occur at the inlet and outlet even at fairly low operating pressures.

#### Installation method

In liquids containing particles, nozzle clogging may occur, and vertical mounting of the transmitter minimizes the risk of clogging.

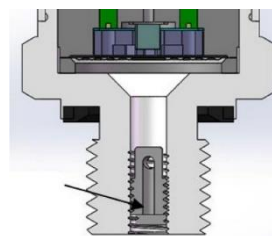


Figure 3.1. Damper

### 4. Mechanical dimensions

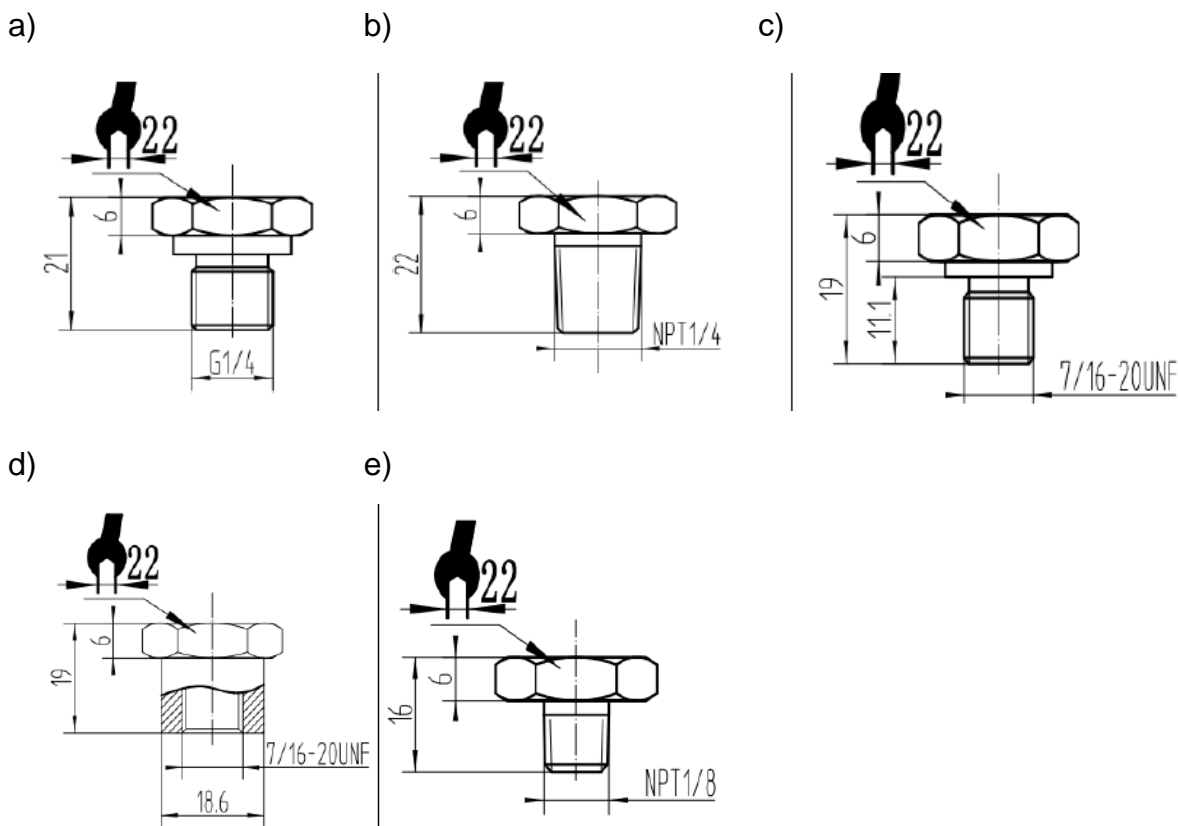


Figure 4.1. Unit: mm; recommended torque: 15~25Nm; a) C3: G1/4; b) C5: NPT1/4-18; c) C11: 7/16-20UNF; d) C11F: Within 7/16-20UNF; e) C18: NPT1/8

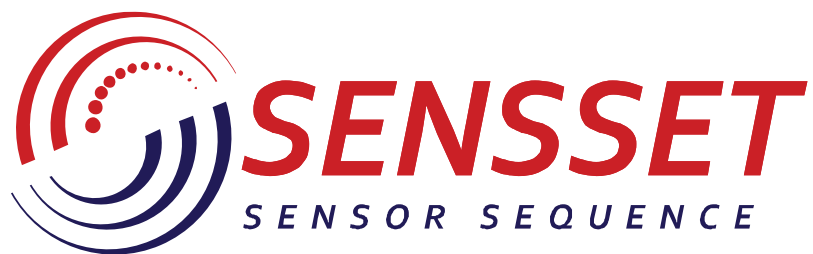
## 5. Range selection

Table 3. Range selection

Range code	Pressure type	Measuring range	Overload pressure	Burst pressure
35k	G	0~35kPa	300%FS	600%FS
70k	G	0~70kPa	300%FS	600%FS
100k	G,A	0~100kPa	200%FS	500%FS
160k	G	0~160kPa	200%FS	500%FS
250k	G,A	0~250kPa	200%FS	500%FS
400k	G	0~400kPa	200%FS	500%FS
600k	G	0~600kPa	200%FS	500%FS
1M	G	0~1MPa	200%FS	500%FS
1.6M	G,S	0~1.6MPa	200%FS	500%FS
2.5M	S	0~2.5MPa	200%FS	500%FS
4M	S	0~4MPa	200%FS	400%FS
6M	S	0~6MPa	200%FS	400%FS
10M	S	0~10MPa	200%FS	400%FS
16M	S	0~16MPa	200%FS	400%FS
25M	S	0~25MPa	150%FS	400%FS

## 6. Order information

<b>SSPS-PTM</b>	Series					
	<b>A</b>	Absolute pressure				
	<b>G</b>	Gauge pressure				
	<b>S</b>	Sealing pressure				
		<b>01</b>	4~20mA			
		<b>06</b>	0.5~4.5VR/M			
		<b>07</b>	0~10V			
			<b>J3</b>	Connector code		
			<b>J4</b>	Connector code		
			<b>J6</b>	Connector code		
			<b>J7</b>	Connector code		
				<b>C3</b>	G1/4	
				<b>C5</b>	NPT1/4-18	
				<b>C11</b>	7/16-20UNF	
				<b>C11F</b>	Within 7/16-20UNF	
				<b>C18</b>	NPT1/8	
					<b>XXX</b>	Range code
<b>SSPS-PTM</b>	<b>G</b>	<b>01</b>	<b>J3</b>	<b>C3</b>	<b>70k</b>	Example: SSPS-PTMG01J3C370k



[www.sensset.ru](http://www.sensset.ru)

8 (812) 309-58-32 доб. 150  
info@sensset.ru

198099, г. Санкт-Петербург  
ул. Калинина, дом 2, корпус 4, литера А.



Development, production and supply of high-tech sensors