

# PC12(WTP02) Pressure Sensor



- Piezoresistive silicon chip employed
- Perfect long term stability
- MEMS Technology
- CE certificate

PC12(WTP02) Pressure Sensor is a flush diaphragm sensor. A high sensitivity silicon pressure chip is employed in the transducer. The sensor is welded within the housing, and no leakage will happen. It is more reliable compared with O-ring sealing for leakage.

It can be used in sanitary industry with olive oil/M20 filling, or silicon oil filling in non-clogging application.

### **Caution**

- 1. Please do not touch the diaphragm by finger and other hard objects, or it may be damaged
- 2. The sensor filled with olive oil is for sanitary application. It cannot work when the temperature is below  $0^{\circ}$ C, because the olive oil will freeze below  $0^{\circ}$ C.

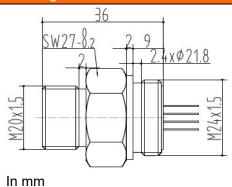
Pressure range		
Pressure range	-100kPa, 35kPa, 70kPa, 100kPa, 250kPa, 400kPa, 600kPa, 1MPa, 1.6MPa, 2.5MPa, 4MPa, 6MPa, 10MPa	
Pressure reference	Gauge pressure Absolute pressure Sealed gauge pressure	
Overpressure	300%F.S.(≤70kPa)   200%F.S.(<25MPa)   150%F.S.(≥25MPa)	



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Output signal			
Zero output	±2mV		
Span output	1.5mA excitation: ≥40mV (≤35kPa); ≥60mV (Other ranges)		
	10V excitation: ≥60mV (≤35kPa); 80-120mV (Other ranges)		
Specification			
Accuracy (linearity, repeatability	±0.25%F.S. (Typical)		
and hysteresis)			
Excitation	1.5mA   10VDC		
Compensated temp.	0℃-60℃ (≤35kPa)   -10℃-70℃ (Other ranges)		
Operating temp.	-40℃-125℃		
Medium temp.	-40℃-125℃		
Storage temp.	-40℃-125℃		
Zero temp. coefficient	0.02%F.S. /°C(≥100kPa)   0.04%F.S. /°C(<100kPa)		
Span temp. coefficient	0.02%F.S. /°C(≥100kPa)   0.04%F.S. /°C(<100kPa)		
Insulation resistance	>200Mohm/250VDC		
Input impedance	2kΩ-5kΩ		
Long term stability	≤0.2%F.S.S./year		
Vibration	20g (20-5000HZ)		
Shock	100g (11ms)		
Response time	≤1ms (up to 90%F.S.)		
Lifetime	10*10 <sup>6</sup> (cycles)		
Oil filling	M20		
O-ring	NBR, Viton		
Housing material	Stainless steel 304		
Diaphragm material	Stainless steel 316L		
Medium compatibility	All the liquids and gases compatible with the diaphragm		
Wire connection	4 wire (typical) 5 wire (available) 39×φ0.015, Silicon shielded, 200°C bearing		
Pin connection	Kovar pin (0.6um Gold platted)		
Weight	135g(approx.)		



## Drawing

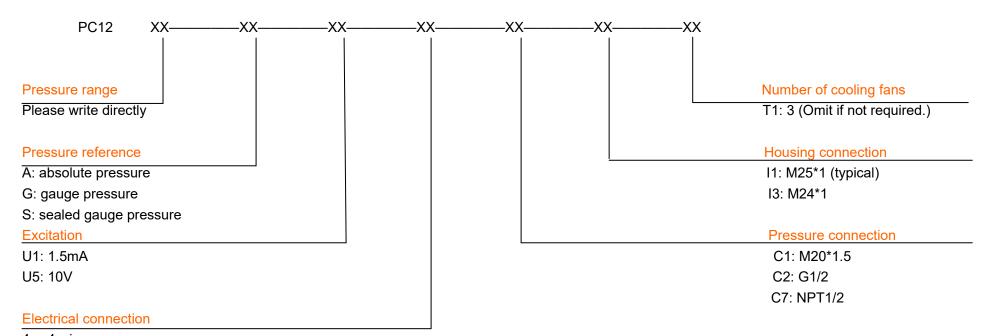




Pin	Connection	Wire
3	Excitation+	Red
1,5	Excitation-	Blue
2	Output+	Yellow
4	Output-	White

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## How to order



4w: 4 wire 5w: 5 wire 5p: 5 pin



Wotian reserves the right to make any change in this publication without notice. The information provided is believed to be accurate and reliable as of this product sheet.

## Contact us

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