

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 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 can't work when the temperature is below 0° C, because the olive oil will freeze below 0° C.

Pressure range													
Pressure range	-100kPa, 10MPa	10kPa,	35kPa,	70kPa,	100kPa,	250kPa,	400kPa,	600kPa,	1MPa,	1.6MPa,	2.5MPa,	4MPa,	6MPa,



Pressure reference	Gauge pressure Absolute pressure Sealed gauge pressure			
Overpressure	300%F.S.(≤70kPa) 200%F.S.(<25MPa) 150%F.S.(≥25MPa)			
Output signal				
Zero output	±2mV			
Span output	60-120mV 100mV(Typical) 40mV(for 10kPa)			
Specification				
Accuracy (linearity, repeatability	±0.25%F.S. (Typical)			
and hysteresis)				
Excitation	1.5mA (Typical) 5VDC 10VDC			
Compensated temp.	-10℃-70℃(≥100kPa) 0℃-60℃(<100kPa)			
Operating temp.	-40℃-125℃			
Medium temp.	-40℃-125℃			
Storage temp.	-40℃-125℃			
Zero temp. coefficient	0.02%F.S. /℃(≥100kPa) 0.04%F.S. /℃(<100kPa)			
Span temp. coefficient	0.02%F.S. /℃(≥100kPa) 0.04%F.S. /℃(<100kPa)			
Insulation resistance	>200Mohm/250VDC			
Input impedance	2.5k Ω -6k Ω			
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 ⁶ (cycles)			
Oil filling	Silicon oil Olive oil available for sanitary application			
O-ring	NBR, Viton			
Housing and diaphragm	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

In mm

How to order



W: wire connection

P: pin connection



Wotian reserves the right to make changes to any product in this publication without notice. The information we supply is believed to be accurate and reliable as of this printing.

Contact us

Nanjing Wotian Technology Co.,Ltd. Add: 5 Wenying Road, Binjiang Development Zone, Nanjing, 211161, China Sales Manager: Wuzhou Lian MP: 0086-13998828452 Email: lianwuzhou@wtsensorus.com

Anshan Wotian Sensor Corp. (Branch Factory) Add: 262, Yueling Road, Gaoxin District, Anshan, China

American Company	German Company	Korean Company
Wotian Sensor Corporation	Wotian Sensor GmbH	Korea Wotian Technology Co., Ltd.
Sales Manager: Geoffery Gao	Sales Manager: Frances	Sales Manager: Yinji An
MP: 001- 626 808 1707		MP: 0086- 13478122009
E-mail: geoffery@wtsensorus.com	E-mail: frances@wtsensorus.com	E-mail: anyinji@wtsensorus.com