

PC320 Industrial Pressure Sensor



- Piezoresistive silicon chip employed
- Perfect long term stability
- MEMS technology
- CE certificate
- Economic pressure sensor
- Sensor diameter: 19mm

PC320 industrial pressure sensor is a standard and most popular sensor applied in air and liquid pressure measuring. A high sensitivity silicon pressure chip is employed in the sensor. The housing is filled with oil for pressure transmission. The most important specification for industry application is long term stability. PC320 sensor is designed for industry application with perfect long term stability.

Diaphragm and pressure range

The diaphragm diameter has tight relation with pressure measured. Low pressure requires large diameter and high pressure needs small diameter. This is caused by oil expansion during temperature changing. It creates internal pressure due to the resistance of the diaphragm. The smaller diaphragm will create large internal pressure, and it is difficult to make zero compensation.

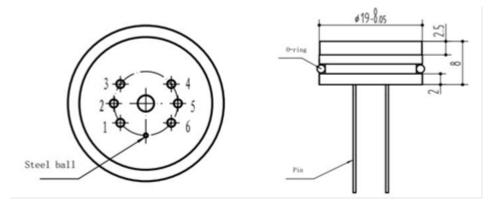
Caution

Please do not touch the diaphragm by finger and other hard objects, or it may be damaged.



Pressure range				
Pressure range	-100kPa, 10kPa, 35kPa, 70kPa, 100kPa, 250kPa, 400kPa, 600kPa, 1MPa, 1.6MPa, 2.5MPa, 4MPa, 6MPa,			
	10MPa(bar and psi unit available)			
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	100mV(Typical) 60mV(<100kPa)			
Specification				
Accuracy (linearity, repeatability	±0.25%F.S. (Typical)			
and hysteresis)				
Excitation	1.5mA (Typical)			
Compensated temp.	-10-70℃(Typical) 0-60℃(<100kPa)			
Operating 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			
Bridge resistance	Min. Max. Unit			
	2600 5500 ohm			
Long term stability	≤0.2%F.S.S/year			
Vibration	20g (20-5000HZ)			
Oil filling	Silicon oil (Typical) Olive oil available for sanitary application			
O-ring	NBR, Viton			
Housing and diaphragm	Stainless steel 316L			
Pin connection	Kovar pin (0.6um Gold platted)			
Weight	25g(approx)			

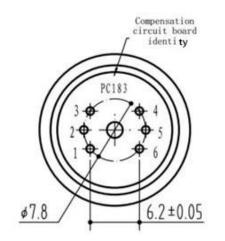
Without temperature compensation

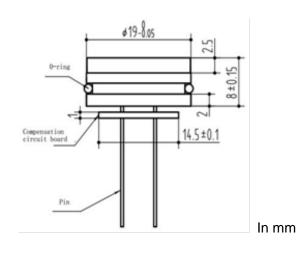


Pin	Connection
3	excitation+
1,6	excitation-
5	pending
2	output+
4	output-

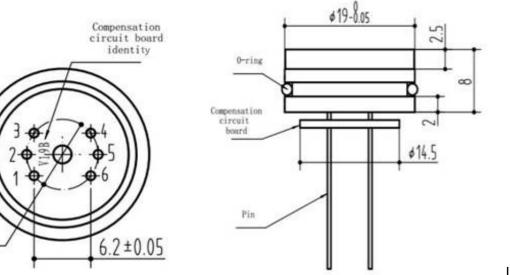
In mm

1.5mA supply with temperature compensation





Pin	Connection
3	excitation+
5	excitation-
2	output+
4	output-

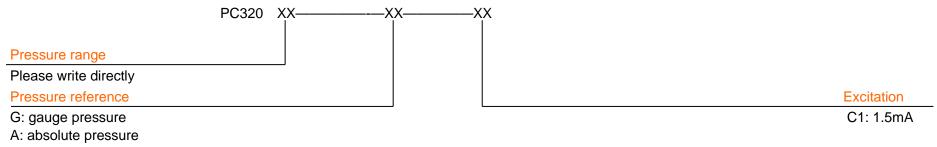


Pin	Connection
5	excitation+
1 or 6	excitation-(Valid
	pin as an identity)
2	output+
4	output-

In mm

How to order

\$7.8



5V supply with temperature compensation

S: sealed gauge pressure

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

American Company Wotian Sensor Corporation Sales Manager: Geoffery Gao MP: 001- 626 808 1707 E-mail: geoffery@wtsensorus.com German Company Wotian Sensor GmbH Sales Manager: Frances

E-mail: frances@wtsensorus.com

Anshan Wotian Sensor Corp. (Branch Factory) Add: 262, Yueling Road, Gaoxin District, Anshan, China Sales Manager: Wuzhou Lian MP: 0086-13998828452 Email: lianwuzhou@wtsensorus.com

Korean Company Korea Wotian Technology Co., Ltd. Sales Manager: Yinji An MP: 0086- 13478122009 E-mail: anyinji@wtsensorus.com