

---

## PC9(WTT19) Industrial Pressure Sensor



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

PC9(WTT19) 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. PC9(WTT19) 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		
Pressure reference	Gauge pressure   Absolute pressure   Sealed gauge pressure		
Overpressure	300%F.S.(≤70Kpa)   200%F.S.(≤10Mpa)		

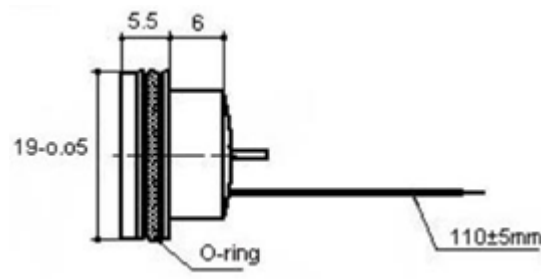
### Output signal

Zero output	±2mV		
Span output	100mV(Typical)   60mV(<100kPa)		

### Specification

Accuracy (linearity, repeatability and hysteresis)	±0.25%F.S. (Typical)		
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		
Wire connection	4 wire (typical)   5 wire (available)    39×φ0.015, Silicon shielded, 200℃ bearing		
Weight	25g(approx)		

## Wire connection



In mm

Wire	Connection
red	excitation+
blue	excitation-
yellow	output+
white	output-

## How to order

PC9(WTT19)

XX—XX—XX

### Pressure range

Please write directly

### Pressure reference

A: absolute pressure

G: gauge pressure

S: sealed gauge pressure

### Excitation

C1: 1.5mA

C2: others (please specify)