

PC13(WT13) Industrial Pressure Sensor



- Piezoresistive silicon chip employed
- Perfect long term stability
- MEMS technology
- CE certificate
- Sensor diameter: 13mm

PC13(WT13) 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. The PC13(WT13) 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

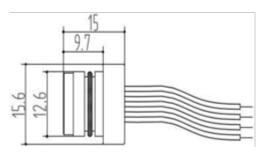
Please do not touch the diaphragm by finger and other hard objects, or it may be damaged.



Pressure range										
- roos are realings										
Pressure range	1MPa, 1.6MPa, 2.5MPa, 4MPa, 6MPa, 10MPa, 16MPa, 25MPa, 40MPa, 60MPa, 100MPa(bar and psi unit									
	available)									
Pressure reference	Absolute pressure Sealed gauge pressure									
Overpressure	200%F.S.(<25Mpa)									
Output signal										
Zero output	±2mV									
Span output	100mV(Typical)									
Specification										
Accuracy (linearity, repeatability	±0.25%F.S. (Typical)									
and hysteresis)										
Excitation	1.5mA (Typical)									
Compensated temp.	-10-70°C (Typical)									
Operating temp.	-40-125℃									
Storage temp.	-40-125℃									
Zero temp. coefficient	0.02%F.S./ °C (≥4MPa) 0.03%F.S. / °C(<4MPa)									
Span temp. coefficient	0.02%F.S. / °C(≥4MPa) 0.03%F.S. / °C(<4MPa)									
Insulation resistance	>200Mohm/250VDC									
Dridge vesistages	Min.	Max.	Unit							
Bridge resistance	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°C bearing									
Pin connection	Kovar pin (0.6um Gold platted)									
Weight	17g(approx)									

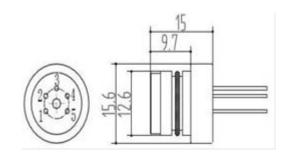


Wire connection Pin connection



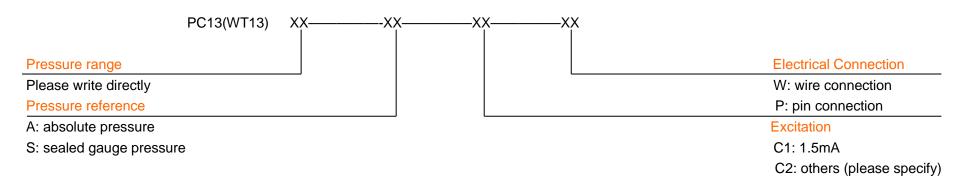


Wire	Connection
red	excitation+
blue	excitation-
yellow	output+
white	output-



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

How to order



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