## PC11(WTP01) Pressure Sensor



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

PC11(WTP01) 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 transducer. The sensor is welded with the housing, no

leakage will happen. It is more reliable compared with O-ring sealing for leakage.

#### Caution

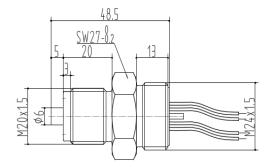
The sensor is welded with housing, so no leakage will happen. That is more reliable compared with O-ring sealing. But if the sensor has a problem, the housing will be wasted.

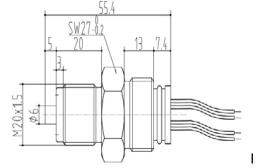
Pressure range					
	-100Kpa, 10kPa, 35kPa, 70kPa, 100kPa, 250kPa, 400kPa, 600kPa, 1MPa, 1.6MPa, 2.5MPa, 4MPa, 6MPa,				
Pressure range	10MPa, 16MPa, 25MPa, 40MPa, 60MPa, 100MPa				
Pressure reference	Gauge pressure Absolute pressure Sealed gauge pressure				
Overpressure	300%F.S.(≤70Kpa)   200%F.S.(<25Mpa)   150%F.S.(≥25Mpa)				
Output signal					
Zero output	±2mV				
Span output	100mV(Typical)	60mV(for 10kp	a)		
Specification					
Accuracy ( linearity, repeatability	±0.25%F.S. (Typical)				
and hysteresis)					
Excitation	1.5mA (Typical) 5VDC 10VDC				
Compensated temp.	-10-70℃(Typical) 0-60℃(<100kPa)				
Operating 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				
Bridge resistance	Min.	Max.	Unit		
	2600	5500	ohm		
Long term stability	≤0.2%F.S.S/year				
Vibration	20g (205000HZ)				
Shock	100g, 10ms				
Response time	≤1ms(10% to 90%F.S.)				
Lifetime	10*10 <sup>6</sup> (cycles)				
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	130g(approx)				

# Drawing

### For pressure range <25MPa

### For pressure range ≥25MPa



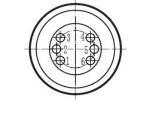


In mm

without temperature compensation 1.5mA supply with temperature compensation

5V supply with temperature compensation

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



	Pin	Connection	
	3	excitation+	
	1or6	excitation-	
	5	pending	
	2	output+	
4		output-	

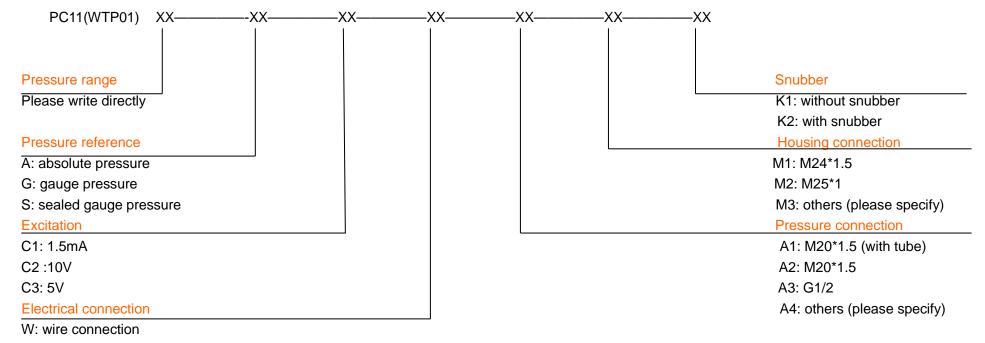
Pin	Connection	
3	excitation+	
5	excitation-	
1or6	pending	
2	output+	
4	output-	

Connection	
excitation+	
excitation-	
pending	
output+	
output-	

# Pressure port

Thread <i>₽</i>	M20*1.5↩	M20*1.5↩	G1/2₽
Dimension in mm. Hex 27mm.	02 02 02 02 02 02 02 02 02 02	25 25 M20x1.5	G1/2
Code₽	<b>A1</b> ₽	<b>A2</b> ₽	<b>A3</b> ₽

#### How to order



P: pin connection