

# PC8(WT15) Industrial Pressure Sensor



- Piezoresistive silicon chip employed
- Perfect long term stability
- MEMS technology
- Sensor diameter: 15mm

PC8(WT15) 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 PC8(WT15) sensor is designed for industry application with perfect long term stability. It has a smaller diameter compared with PC10(WT19) pressure sensor.

#### 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.

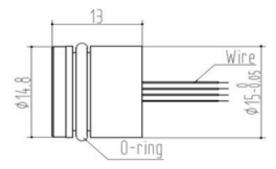


Pressure range			
Pressure range	1MPa, 1.6MPa, 2.5MPa, 4MPa, 6MPa, 10MPa, 16MPa, 25MPa, 40MPa, 60MPa, 100MPa (bar and psi unit available)		
Pressure reference	Absolute pressure   Sealed gauge pressure		
Overpressure	200%F.S.(<25MPa)   150%F.S.(≥25MPa)		
Output signal			
Zero output	±2mV		
Span output	≥60mV		
Specification			
Accuracy (linearity, repeatability and hysteresis)	±0.25%F.S. (Typical)		
Excitation	1.5mA		
Compensated temp.	-10℃-70℃		
Operating temp.	-40℃-125℃		
Storage temp.	-40℃-125℃		
Zero temp. coefficient	0.02%F.S./ ℃		
Span temp. coefficient	0.02%F.S./ ℃		
Insulation resistance	>200Mohm/250VDC		
Input impedance	$2k\Omega$ - $5k\Omega$		
Long term stability	≤0.2%F.S.S./year		
Vibration	20g (20-5000Hz)		
Oil filling	Silicon oil		
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	25g(approx)		

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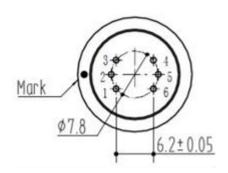
## Wire connection



In mm

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

## Pin connection



# Without temperature compensation

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

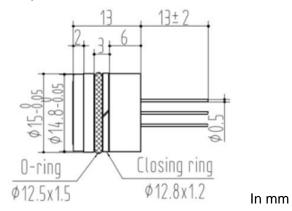
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Pin	Connection



#### with temperature compensation

S: sealed gauge pressure



3	excitation+	1.5mA
5	excitation-	
1,6	pending	
2	output+	
4	output-	

11: 1.5mA

How to order		
now to order	PC8 XXXXXX	
Pressure range		Electrical Connection
Please write directly		4w: 4 wire
Pressure reference		6p: 6 pin
A: absolute pressure		Excitation

Wotian reserves the right to make any change in this publication without notice. The information provided is believed to be accurate and reliable as of this product sheet.

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## **Contact us**

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