

PC11(WTP01) Pressure Sensor



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

PC11(WTP01) pressure sensor is a standard and popular sensor applied in air and liquid pressure measuring. A high sensitivity silicon pressure chip is employed in the transducer. The sensor is welded within the housing, and 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.

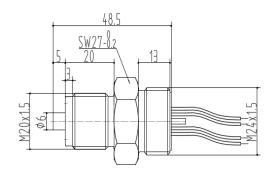


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Pressure range			
Drocoure range	-100kPa, 10kPa, 35kPa, 70kPa, 100kPa, 250kPa, 400kPa, 600kPa, 1MPa, 1.6MPa, 2.5MPa, 4MPa, 6MPa,		
Pressure range	10MPa, 16MPa, 25MPa, 40MPa, 60MPa, 100MPa		
Pressure reference	Gauge pressure Absolute pressure Sealed gauge pressure		
Overpressure	300%F.S.(≤70kPa) 200%F.S.(<25MPa) 150%F.S.(≥25MPa)		
Output signal			
Zero output	±2mV		
Span output	1.5mA excitation: ≥40mV (≤35kPa); ≥60mV (Other ranges)		
Span output	10V excitation: ≥60mV (≤35kPa); 80-120mV (Other ranges)		
Specification			
Accuracy (linearity, repeatability	±0.25%F.S. (Typical)		
and hysteresis)			
Excitation	1.5mA 10VDC		
Compensated temp. 0°C-60°C (≤35kPa) -10°C-70°C (Other ranges)			
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		
Input impedance	rm stability ≤0.2%F.S.S/year		
Long term stability			
Vibration			
Shock	100g (11ms)		
Response time	≤1ms(up to 90%F.S.)		
Lifetime	10*10 ⁶ (cycles)		
Oil filling	Silicon oil		
O-ring	NBR, Viton		
Housing material	Stainless steel 304		
Diaphragm material	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.)		

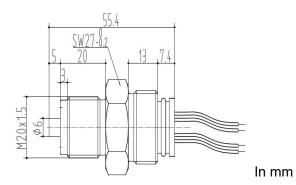


Drawing

For pressure range <25MPa



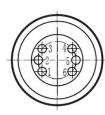
For pressure range ≥25MPa



without temperature compensation 1.5mA supply with temperature compensation

10V supply with temperature compensation

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

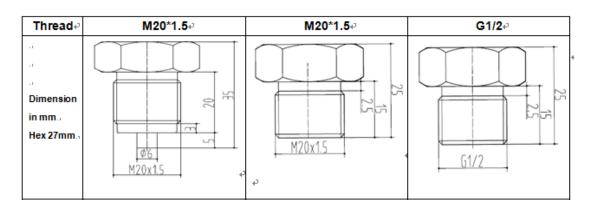


	Pin	Connection
	3	excitation+
	1or6	excitation-
	5	pending
	2	output+
	4	output-

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

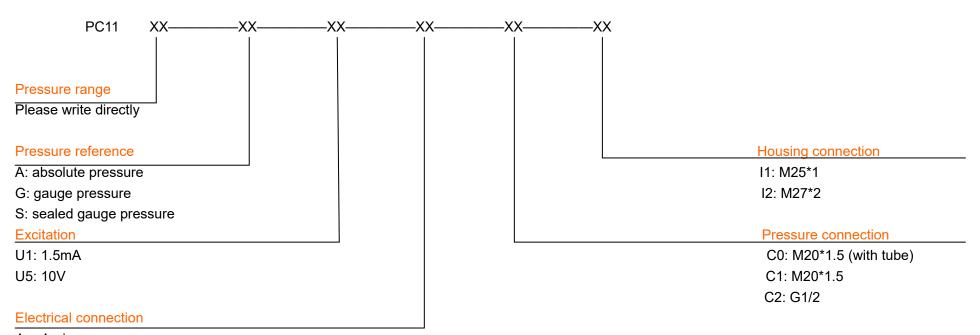
Pin	Connection
5	excitation+
1or6	excitation-
3	pending
2	output+
4	output-

Pressure port





How to order



4w: 4 wire 6p: 6 pin

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.



Контакт:

Nanjing Wotian Technology Co., Ltd.

Веб-сайт: ru.wtsensor.com

Адрес: 5 Wenying Road, Binjiang Development Zone, Nanjing, 211161, China

Электронная почта: wtsensor@wtsensor.com

Телефон: +86-18640205486 Менеджер по продажам: Эмма