

PC11B All Welded Pressure Sensor

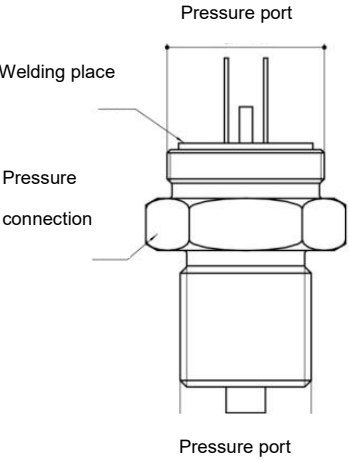
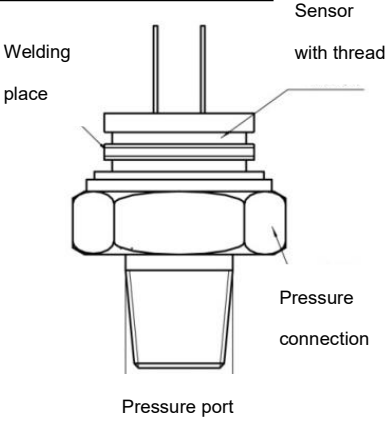
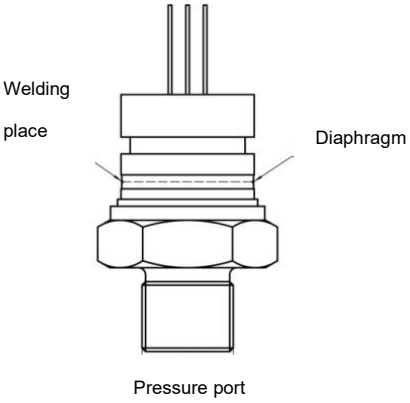


- Full welded seal, can be used in harsh environment
- High performance, all solid, corrosion resistant
- High accuracy and stability
- Strong anti-interference, good long-term stability
- Constant current excitation option
- Customization available

PC11B All Welded Pressure Sensor is to package PC10 pressure sensor into the workpiece with standard pressure connection. It uses fully welded seal, avoiding hidden dangers caused by O-ring seal in harsh environment.

PC11B is applicable to the standard housing support for instrumentation manufacturers and industries of columnar transmitters, 2088, E+H, etc. It is widely used in the process control and measurement in the industries including petroleum, chemical, metallurgy, aviation, aerospace, shipbuilding, medical equipment, vehicles, refrigerators, compressors, etc.

Pressure range	
Pressure range	-100kPa, 10kPa, 35kPa, 70kPa, 100kPa, 250kPa, 400kPa, 600kPa, 1MPa, 1.6MPa, 2.5MPa, 4MPa, 6MPa, 10MPa, 16MPa, 25MPa, 40MPa, 60MPa, 100MPa
Pressure reference	Gauge pressure Absolute pressure Sealed gauge pressure
Overpressure	200%F.S.($<10\text{MPa}$) 150%F.S.($\geq 25\text{MPa}$)
Output signal	
Zero output	$\pm 2\text{mV}$
Span output	1.5mA Excitation: $\geq 40\text{mV}$ ($\leq 35\text{kPa}$); $\geq 60\text{mV}$ (Other ranges) 10V Excitation: $\geq 60\text{mV}$ ($\leq 35\text{kPa}$); 80~120mV (Other ranges)
Specification	
Excitation	1.5mA 10VDC
Compensated temp.	$0^{\circ}\text{C}-60^{\circ}\text{C}$ ($\leq 35\text{kPa}$) $-10^{\circ}\text{C}-70^{\circ}\text{C}$ (Other ranges)
Operating temp.	$-40^{\circ}\text{C}-125^{\circ}\text{C}$
Storage temp.	$-40^{\circ}\text{C}-125^{\circ}\text{C}$
Zero temp. coefficient	0.02%F.S. / $^{\circ}\text{C}$ ($\geq 100\text{kPa}$) 0.04%F.S. / $^{\circ}\text{C}$ ($<100\text{kPa}$)
Span temp. coefficient	0.02%F.S. / $^{\circ}\text{C}$ ($\geq 100\text{kPa}$) 0.04%F.S. / $^{\circ}\text{C}$ ($<100\text{kPa}$)
Insulation resistance	200Mohm/250VDC
Input impedance	2k Ω -5k Ω
Long term stability	$\leq 0.2\%$ F.S.S/year
Vibration	20g (20-5000Hz)
Shock	100g (11ms)
Response time	$\leq 1\text{ms}$ (up to 90%F.S.)
Oil filling	Silicon oil
Material	Housing: Stainless steel 304 Diaphragm: Stainless steel 316L
Medium compatibility	All the liquids and gases compatible with the diaphragm

H type	L type	Q type
		
<p>① Pressure range: 20kPa~10MPa</p> <p>② Feature: The pressure sensor is designed inside the pressure connection part with small longitudinal length and big horizontal length.</p>	<p>① Pressure range: 6MPa~100MPa</p> <p>② Feature: Part of the pressure sensor is designed inside the pressure connection part with small diameter of rear end.</p>	<p>① Pressure range: 20kPa~2.5MPa</p> <p>② Feature: The pressure sensor is designed outside the pressure connection part. The pressure connection part, diaphragm and base are welded together with big longitudinal length and small horizontal length.</p>

Note: Above are 3 typical structures of all welded pressure sensor. The product is a customized product. Detailed specifications follow customer's requirements.

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.

Contact us

Nanjing Wotian Technology Co.,Ltd.

website: www.wtsensor.com

Add: 5 Wenyong Road, Binjiang Development Zone, Nanjing, 211161, China

Sales Manager: Wuzhou Lian

Email: lianwuzhou@wtsensor.com