

PC11B All Welded Pressure Sensor

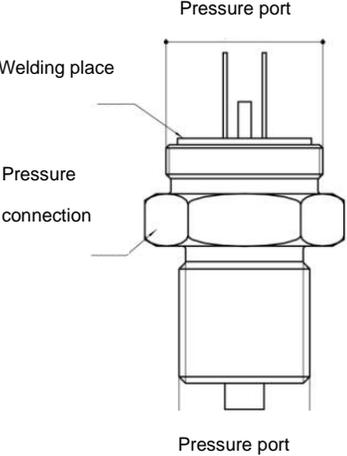
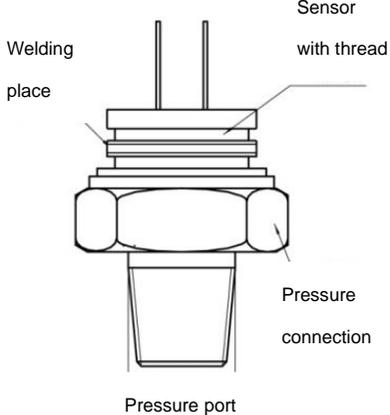
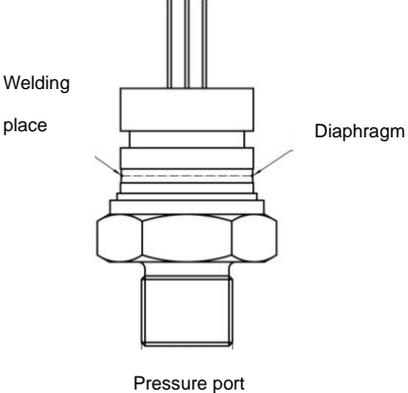


- Full welded seal, can be used in harsh environment
- High performance, all solid, corrosion resistant
- High accuracy and stability
- Strong anti-interference, good long-term stability
- Constant current excitation option
- Customization available

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~</p> <p>② Feature: 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~</p> <p>② Feature: 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~</p> <p>② Feature: 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>
<p>Note: Above are 3 typical structures of all welded pressure sensor. The product is a customized product. Detailed specifications follow customer's requirements.</p>		



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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