

## PC11B All Welded Pressure Sensor

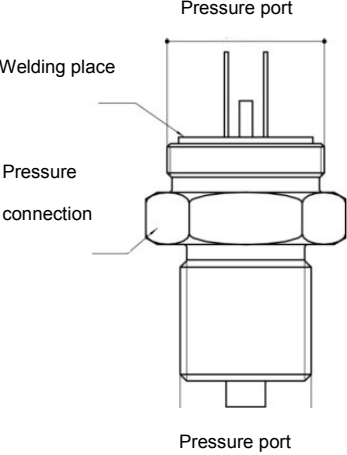
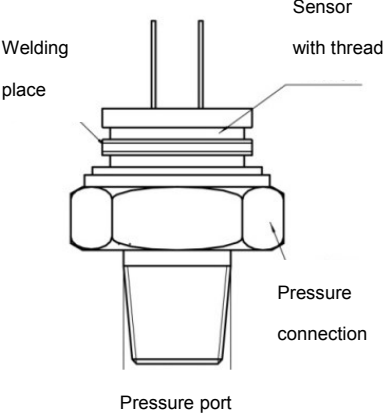
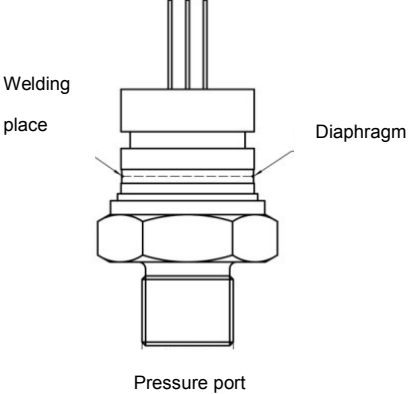


- Full welded seal, can be used in harsh environment
- High performance, all solid, corrosion resistant
- High accuracy and stability
- Strong anti-interference, good long-term stability
- Constant current excitation option
- Customization available

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            | 60-120mV   100mV(Typical)   40mV(for 10kPa)   |
| Specification          |   |
| Excitation             | 1.5mA   10VDC   |
| Compensated temp.      | $-10^{\circ}\text{C}-70^{\circ}\text{C}$ ( $\geq 100\text{kPa}$ )   $0^{\circ}\text{C}-60^{\circ}\text{C}$ ( $<100\text{kPa}$ )           |
| 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        | 2.5k $\Omega$ -6k $\Omega$  |
| 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   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> |
| <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 changes to any product in this publication without notice. The information we supply is believed to be accurate and reliable as of this printing.

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