

# PC10-C Sensor Circuit Components

## Features

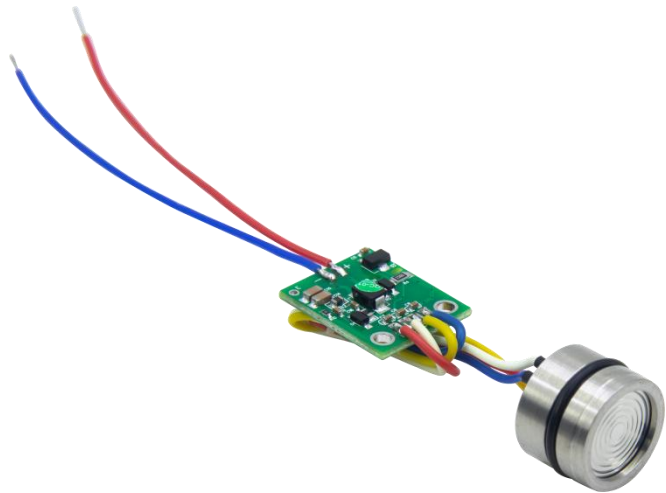
- 316L stainless steel diaphragm structure
- Sensor + circuit structure
- Small size, light weight
- The product has been calibrated and used directly after installation
- Strong anti-interference, good long-term stability
- Wide range, can measure absolute pressure, gauge pressure and seal pressure

## Applications

- Process control
- Aviation and aerospace
- Automobile, medical equipment
- Piping system

### Notes:

- 1 Do not touch the diaphragm with hard objects, which may cause damage to the diaphragm.
- 2 Please read the Instruction Manual of the product carefully before installation and check the relevant information of the product.
- 3 Strictly follow the wiring method for wiring, otherwise it may cause product damage or other potential faults.
- 4 Misuse of the product may cause danger or personal injury.



## Product overview

The pressure sensitive core of PC10-C Sensor circuit components uses PC10 diffused silicon sensor.

The nanocore microdigital circuit is used to convert the sensor millivolt signal into a standard current signal, which can be directly connected to the computer interface card, control instrument, intelligent instrument or PLC, etc. Current output can be used for long-distance transmission.

The transmitter assembled by PC10-C sensor circuit components can be widely used in process control manufacturing, aviation, aerospace, automotive, medical equipment, HVAC and other fields.

### Notes:

- 1 Do not misuse documentation.
- 2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- 3 Complete installation, operation, and maintenance information is provided in the instructions of the product.
- 4 Misuse of the product may cause danger or personal injury.

### Electrical performance parameters

Pressure range	-100kPa~-100kPa...0~35kPa...60MPa
Pressure reference	Gauge pressure, Absolute pressure, Sealed gauge pressure
Accuracy	0.5%FS
Hysteresis	0.1%FS
Repeatability	0.1%FS
Temp. drift	35kPa:±3%FS(0℃~60℃) Others:±1.5%FS(-10℃~70℃)
Response time	≤90ms (Up to 90%FS)
Overload pressure	Refer to "Pressure range selection"
Durability	≥10 <sup>6</sup> pressure cycles
Ambient temp.	-20℃~85℃
Medium temp.	-30℃~105℃
Storage temp.	-40℃~125℃
Insulation resistance	≥250MΩ/500VDC(100MΩ/250VDC)

### Output and power supply

Code	B1	B3	B7	B6	B6N
Output	4~20mA	0~5V	0~10V	0.5~4.5V R/M	0.5~4.5V Non R/M
Power supply	12~30VDC			5VDC	

### Electrical connection

Connection mode Current (2 wires)	Red: Supply+ Blue: Current output
Connection mode Voltage (3 wires)	Red: Supply+ Blue: Ground Yellow: Voltage output

### Pressure range selection

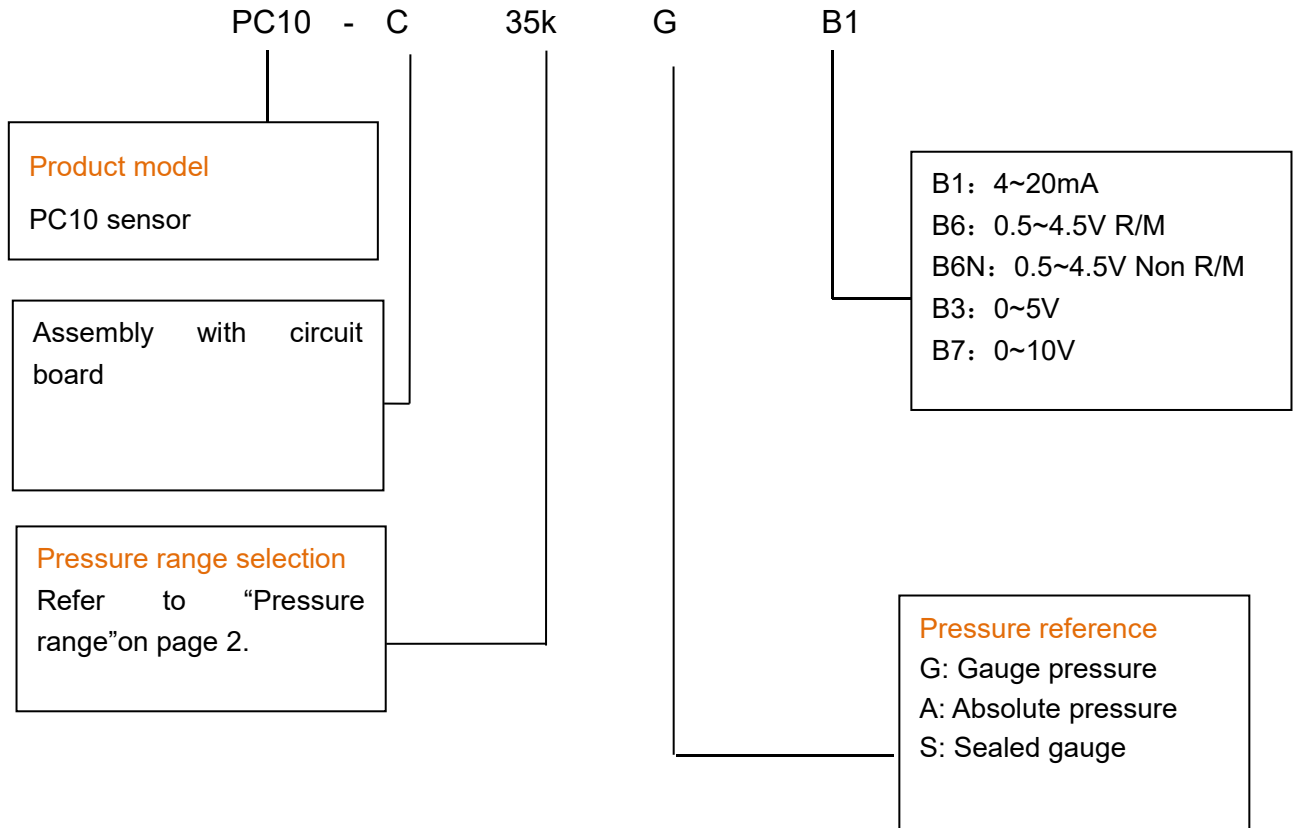
Code	Pressure reference	Pressure range	Overpressure	Burst pressure	Remark
(-100~0)k	G	(-100~0)k	300%FS	600%FS	
10k	G	0~10kPa	300%FS	600%FS	
35k	G, A	0~35kPa	300%FS	600%FS	
70k	G	0~70kPa	300%FS	500%FS	
100k	G, A	0~100kPa	200%FS	500%FS	
250k	G, A	0~250kPa	200%FS	500%FS	
600k	G, A	0~600kPa	200%FS	500%FS	
1M	G, A	0~1MPa	200%FS	500%FS	
1.6M	G, A, S	0~1.6MPa	200%FS	500%FS	
2.5M	S	0~2.5MPa	200%FS	500%FS	
6M	S	0~6MPa	200%FS	400%FS	
10M	S	0~10MPa	200%FS	400%FS	



25M	S	0~25MPa	200%FS	400%FS	
40M	S	0~40MPa	200%FS	400%FS	
60M	S	0~60MPa	150%FS	300%FS	

Note: G: Gauge pressure, A: Absolute pressure, S: Sealed gauge pressure

## How to order



**Example:** PC10-C-35kGB1

Product model:PC10 with circuit board components. 35k:pressure range 0~35kPa. G:gauge pressure. B1: output signal 4~20mA.

### Ordering tips:

When selecting, please pay attention to the compatibility between the tested medium and the contact part of the product.

### Contact us

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