

PCM50 Current Output Pressure Sensor

Features

- 316L stainless steel isolation diaphragm structure
- Small size and light weight
- High cost-effectiveness
- O-ring seal
- Low heat affect (20mA)

Applications

- Hydraulic control system
- Water depth detection
- Seal detection system
- Industrial process control
- Fluid pressure measurement

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

PCM50 current output pressure sensor adopts a diffusion silicon pressure sensor as the pressure-sensitive core. Its internal dedicated integrated circuit converts the millivolt signal of the sensor into a standard current signal, which can be directly connected to computer interface cards, control instruments, intelligent instruments, or PLCs.

PCM50 is small in size and easy to install. This product adopts digital circuit compensation and has high accuracy and good stability.

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.

Performance parameters

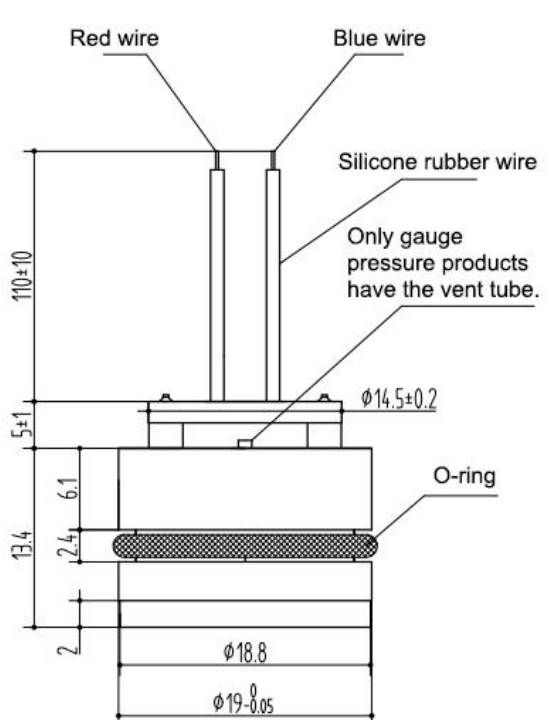
Pressure range	0~35 kPa...6MPa
Pressure reference	Gauge pressure, Absolute pressure, Sealed gauge pressure
Accuracy	0.5%FS
Temp. drift	±1.5%FS(-20℃~85℃)
Power-on response time	≤100ms
Overload pressure	Refer to "Pressure range selection"

Durability	$\geq 10^6$ pressure cycles
Ambient temp.	$-20^{\circ}\text{C} \sim 85^{\circ}\text{C}$
Medium temp.	$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
Storage temp.	$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
Insulation resistance	$\geq 100\text{M}\Omega/250\text{VDC}$
Medium compatibility	All kinds of media compatible with 316L stainless steel

Output and power supply

Code	B1
Output	4~20mA
Power supply	9~30VDC

Electrical connection & wiring mode

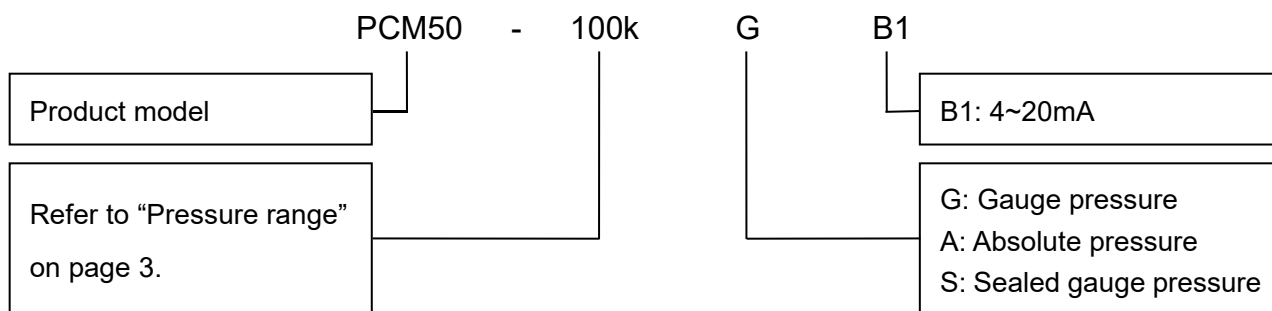
Dimension In mm	Physical Dimension (tolerance unless otherwise specified: $\pm 0.1\text{mm}$)  Red wire Blue wire Silicone rubber wire Only gauge pressure products have the vent tube. O-ring $\phi 14.5 \pm 0.2$ $\phi 18.8$ $\phi 19 - 0.05$ 110$\pm$10 5$\pm$1 6.1 2.4 13.4 2
Wiring mode (current 2 wire)	Electrical Connection Red wire: 24V Blue wire: Iout

Pressure range selection

Code	Pressure reference	Pressure range	Overpressure	Burst pressure	Notes
35k	G、A	0~35kPa	200%FS	300%FS	
100k	G、A	0~100kPa	200%FS	300%FS	
160k	G、A	0~160kPa	200%FS	300%FS	
250k	G、A	0~250kPa	200%FS	300%FS	
400k	G、A	0~400kPa	200%FS	300%FS	
600k	G、A	0~600kPa	200%FS	300%FS	
1M	G、A	0~1MPa	200%FS	300%FS	
1.6M	G、A	0~1.6MPa	200%FS	300%FS	
2.5M	S	0~2.5MPa	200%FS	300%FS	
4M	S	0~4MPa	200%FS	300%FS	
6M	S	0~6MPa	200%FS	300%FS	

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

How to order



Example: PCM50-100kGB1

The model is PCM50. 100k:pressure range 0~100kPa. G:gauge pressure. B1:output signal 4~20mA.

Ordering tips:

1. Ensure compatibility between the measured media and the contacting part of the product.
2. The pressure range is between 35kPa and 6Mpa, and customization is available.
3. The product adopts laser marking.

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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