

PCM91 Monocrystalline Silicon Gauge/Absolute Pressure Component

Features

- Advanced monocrystalline silicon gauge/absolute pressure sensor adopted
- Wide pressure range covering 0~6kPa...40MPa
- 2 wire, 4~20mA@HART protocol
- Intelligent LCD gauge with backlight
- With both remote transmission and local zero and pressure range adjustment
- Complete varieties, high accuracy, good stability

Applications and industries

Process control fields for the industries such as petroleum, chemical industry, metallurgy, electricity, food, papermaking, medicine, machine manufacturing, scientific experiment and military aviation etc.

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 internal chip of PCM91 monocrystalline silicon gauge/absolute pressure component adopts MEMS monocrystalline silicon pressure chip imported from Germany. The sensor signal is converted into a standard signal output through a special signal processing module. After long-term aging and stability screening, the product performance is stable and reliable, and it can display pressure on site. Zero and span adjustable.

PCM91 monocrystalline silicon gauge/absolute pressure component installation connection can be processed according to the user's requirements, and can also be made compatible with other brands of transmitters. This series of products are widely used in industrial process control, petroleum, chemical, metallurgy and other industries.

Notes:

1 Do not misuse documentation.

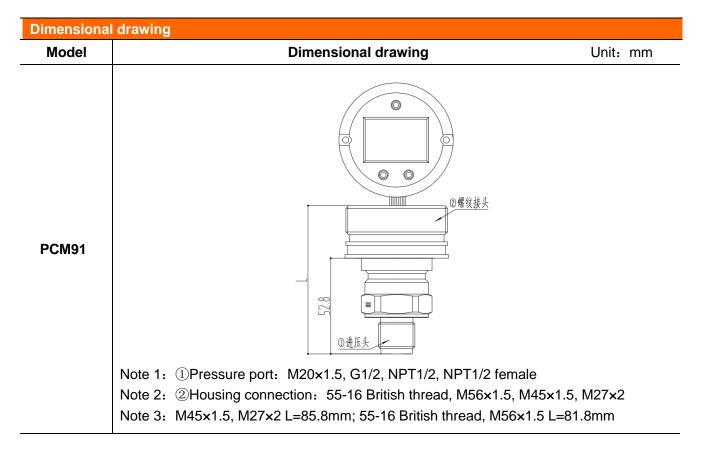
2 The information presented in this product sheet is for reference only.

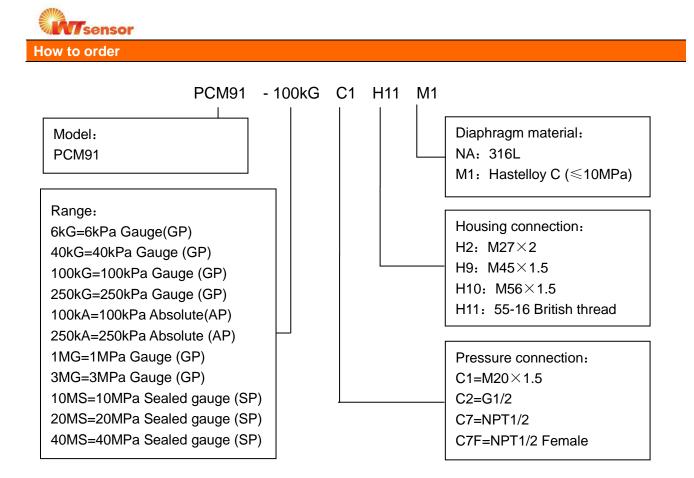
Do not use this document as a product installation guide.

3 Complete installation, operation, and maintenance information is provided in the instructions of the product.



Performance parameters				
\pm 6kPa G, \pm 40kPa G, \pm 100kPa G, -100 \sim 250kPa G, 0 \sim 100kPa A, 0 \sim				
250kPa A, -0.1 \sim 1MPa G, -0.1 \sim 3MPa G, 0 \sim 10MPa S, 0 \sim 20MPa S, 0 \sim				
40MPa S				
Gauge pressure, Absolute pressure, Sealed gauge pressure				
12V~32V, Recommend 24V				
4~20mA+HART				
6kPa: \pm 0.1%FS; Other ranges: \pm 0.075%FS				
±6kPa: ±0.3%FS: Other ranges: ±0.25%FS (-20∼70°C)				
-30℃~80℃; -30℃~70℃ if with LCD				
-40℃~104℃				
-30℃~70℃				
≥200MΩ /250VDC				
20g(20~5000Hz)				
100g(11ms)				
Refer to "Pressure range selection"				
\pm 0.2%FS/Year				
Isolation diaphragm 316L, Hastelloy C(\leq 10MPa)				
Various media compatible with 316L, Viton				



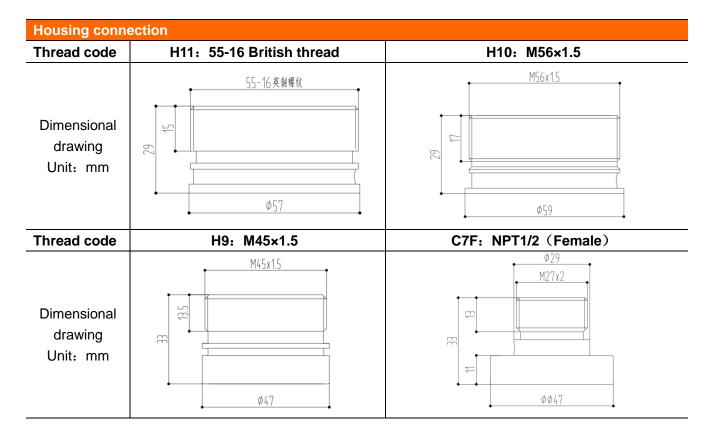


Example: PCM91-100kC1H11 refers to product model PCM91, range \pm 100kPa Gauge pressure, output: 4 ~ 20mA@HART protocol, pressure port M20*1.5, housing connection 55-16 British thread and diaphragm 316L.

Pressure connection				
Thread code	C1: M20×1.5-6g	C2: G1/2		
Dimensional drawing Unit: mm	875 W20x1.5	52.8 6.1/2		
Recommended torque	15~25Nm	15~25Nm		



Thread code	C7: NPT1/2	C7F: NPT1/2 (Female)
Dimensional drawing Unit: mm	8 ZZ	975 HEX36
Recommended torque	15~25Nm	15~25Nm



Pressure range selection				
Range code	Pressure range	Overpressure		
6kG	±6kPa	300kPa		
40kG	±40kPa	1MPa		
100kG	±100kPa	2MPa		
250kG	-100~250kPa	4MPa		
100kA	0~100kPa A	2MPa		
250kA	$0{\sim}250$ kPa A	2MPa		
1MG	-0.1~1MPa	6MPa		



3MG	-0.1~3MPa	12MPa
10MS	0~10MPa	20MPa
20MS	0~20MPa	40MPa
40MS	0~40MPa	60MPa

Ordering tips:

Accessory needs to be order separately

Contact us

Nanjing Wotian Technology Co.,Ltd.

Website: www.wtsensor.com

Add: 5 Wenying Road, Binjiang

Development Zone, Nanjing, 211161,

China

.

E-mail: dr@wtsensor.com