

PCM90D Monocrystalline Silicon Differential Pressure Component with Clamp Block

Features

- Advanced monocrystalline silicon differential pressure sensor adopted
- Wide pressure range covering -0.1kPa~ 3MPa
- Double-wire mode, 4~20mA, HART protocol
- Intelligent LCD gauge outfit with backlight
- With both the remote transmission and the local zero and pressure range adjustment
- Complete varieties, high accuracy, good stability
- High static pressure, high overload protection
- Patented double overload protection diaphragm design

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.



Product overview

PCM90D Monocrystalline Silicon Differential Pressure Component with Clamp Block adopt the world advanced monocrystalline silicon pressure sensor technology and the patented packaging process. This product adopts the patented double overload protection diaphragm design, with the internal circuit surge protection design, and can accurately measure the gauge pressure, absolute pressure flow, vacuum degree, liquid-level and density.

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	
Pressure range	\pm 1kPa; \pm 6kPa; \pm 40kPa; \pm 100kPa; \pm 250kPa; \pm 1MPa; \pm 3MPa
Excitation	12VDC~32VDC, 24VDC is recommended
Output	4~20mA+HART protocol

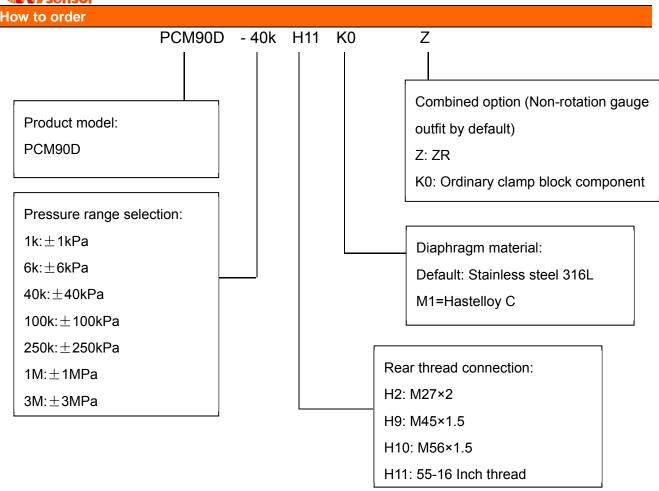
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\pm 1kPa: \pm 0.2%FS; \pm 6kPa: \pm 0.1%FS;other range: \pm 0.075%FS		
\pm 1kPa: \pm 0.5%FS; \pm 6kPa: \pm 0.3%FS; other range: \pm 0.25%FS		
(-20℃~70℃)		
≥200M Ω /250VDC		
non-explosion zone:-30°C∼80°C; with LCD gauge outfit: -30°C∼70°C		
-40℃~125℃		
\pm 1kPa; \pm 6kPa; \pm 40kPa static pressure 16MPa;		
\pm 100kPa;-100 \sim 250kPa static pressure 25MPa;		
-0.1∼1MPa;-0.1∼3MPastatic 40MPa		
16MPa		
IP65		
5~95%RH		
±0.1%FS/year (standard range)		
316L, Hastelloy C		
304		
Silicone rubber		
Silicon oil		
304		
M20×1.5 with welded pipe, NPT1/4 (Female), NPT1/2 (Male), NPT1/2		
(Female), G1/2 (Male) with welded pipe, G1/4 (Male), 304 tri-valve set		
NPT1/4F (304/316 available), tri-valve set M20×1.5 with welded pipe		
(304/316 available),		

Outline dimension			
Product model	PCM90D	PCM90D	PCM90D
	±1kPa	Other range	Component with Clamp Block
Outline dimension	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	9†¢	55±2





Example: PCM90D-40kH11M1-ZK0

Refer to product model: PCM90D, pressure range: ± 40 kPa, rear thread connection: 55-16 Inch thread, diaphragm: Hastelloy C, gauge: ZR, Clamp block component: Ordinary clamp block component.

Accessory selection

Accessory	Detailed information		Don't de
code	Name	Quantity	Drawing
C1: M20×1.5 with welded pipe	T shape connector	2	1、丁型接头 2、螺栓 4个
	M10×20 bolt	4	
	O-ring	2	
	PTFE gasket	2	
	M20 nut	2	3、①型圈 4、四氟垫片 5、螺母 6、引压焊管
	Φ14×4 welded pipe	2	2A 2A 2A 2A



www.sensor			
C7F: NPT1/2 (F) Waist flange	O-ring	2	1、0型圏 2个 2へ 2へ 2へ
	Waist flange	2	3、螺栓
	M10×35 bolt	4	
	-	-	
	-	-	
	NPT1/4 to G1/2 adapter	2	1、G1/2接头 2个 2、G4/2周期
	G1/2 bolt	2	2、G1/2螺母 2个
C2: G1/2 with	φ14×4 welded pipe	2	
welded pipe	PTFE gasket	2	3、引压焊管2个
	-	-	4、四氟垫 2个
	NPT1/4 to G1/4 adapter	2	5) 1、G1/4接头
C3:G1/4	-	-	21/4
C3:G1/4	-	-	
	-	-	
	NPT1/4 to NPT1/2 adapter	2	1、NPT1/2接头 2个
C7·NDT1/2	-	-	NPT1/2
C7:NPT1/2	-	-	
	-	-	
SFZC1: Tri-Valve Set -M20 with welded pipe 304/316 available	PTFE gasket	2	
	Tri-Valve Set	1	
	M20×1.5 connector	2	7、螺栓4个
	M20×1.5 bolt	2	1、四氟垫 2个
	PTFE gasket	2	
	φ14×4 welded pipe	2	2、三阕组 1个
	M10×35 bolt	4	3、M20接头/ 4、螺母/ 5、四氟垫 2个 2个 2个



AR CH SOIISOI		1	
	PTFE gasket	2	
SFZC5F: Tri-Valve Set -NPT1/4 female 304/316 available	Tri-Valve Set	1	
	NPT1/4 connector	2	4、螺栓
	M10×35 bolt	4	1、四氟垫 2个
	-	-	2、三阀组
	-	-	3、NPT1/4内接头 2个

Example: SFZC5F

Accessory: Tri-Valve Set -NPT1/4 female

Ordering tips:

Accessory needs to be order separately.