

PCM302 Pressure Transmitter

Features

- All stainless steel, all welded structure
- High strength, anti-vibration
- Wide measuring range, can measure absolute pressure, gauge pressure and sealed gauge pressure
- Good sealing, long-term stability
- Advanced structure to ensure product reliability
- Widely used in flammable and explosive occasions

Application

- Equipment supporting
- Hydraulic and pneumatic equipment
- CNG Pipeline Network
- Compressor
- Natural gas filling station equipment

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

PCM302 pressure transmitter adopts diffused silicon pressure core as the sensitive element. Built-in processing circuit converts the sensor's millivolt signal into standard voltage, current, and frequency signal output, which can be directly connected to a computer, control instrument, display instrument, etc., and can carry out remote signal transmission.

It adopts an integrated all-stainless steel structure and has been welded many times to meet the explosion design requirements, long-term be used in harsh environments. There are a wide range of flammable and explosive occasions in industries such as Petroleum, chemical industry, electricity Power, hydrology, geology and ship application.

Notes:

1 Do not misuse documentation.

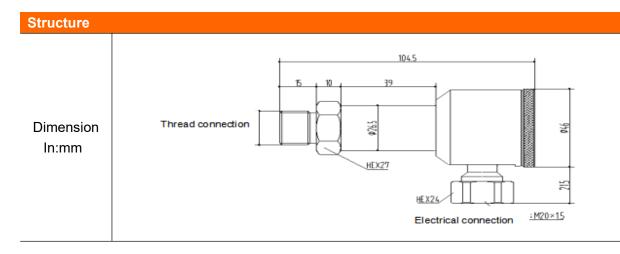
2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.

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.



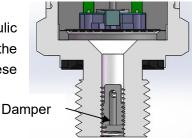
Performance paramete	rs		
Pressure Range	-100kPa0~35kPa60MPa		
Pressure reference	Gauge pressure Absolute pressure Sealed gauge pressure		
Supply&output	4~20mA(12~36VDC)		
Accuracy	±0.5%FS (typ.)		
Compensated temp.	-10∼70℃		
Temperature drift	≤±1.5%FS (@-10℃~70℃)		
Response time	≤1ms (up to 90%FS)		
Durability	≥10 ⁶ pressure cycles		
Ambient temperature	-20°C~80°C		
Medium temperature	-30℃~105℃		
Storage temperature	-40°C~85°C		
Long-term stability	±0.2%FS/year		
Insulation resistance	≥100MΩ/250VDC		
Shock resistance	10g/11ms		
Protection level	IP65		
Material	304		
Installation torque	25Nm		



Application of damper

Application

Cavitation, liquid hammer and pressure peak may occur in air or hydraulic systems with varying flow rates, such as the rapid closing of valve or the start and stop of pump. Even at relatively low operating pressures, these problems may occur at the entrance and exit.



Medium condition

In the liquid containing particles, nozzle clogging may occur. The vertical mounting of pressure transmitter minimizes the risk of clogging because the flow of fluid happens in initial start only, the volume of the rear of the nozzle is fixed and the nozzle has a relatively large aperture (1.2 mm). The effect of medium viscosity on response time is small. Even if the viscosity reaches 100 CST, the response time will not exceed 4 ms.



Pressure connection			
Thread code	C1:M20×1.5-6g	C2:G1/2	C3:G1/4
Dimension in mm	HEX MZ0×15-6g	HEX27	HEX27
Recommended torque	15~25Nm	15~25Nm	15~25Nm
Thread code	C7:NPT1/2	C22:M16×1.5	
Dimension in mm	HEX S S S S S S S S S S S S S S S S S S S	HEX27 HEX27 M16 × 15-6q	
Recommended torque	15~25Nm	15~25Nm	

Note: Torque depends on various factors such as material of gasket, supporting materials, lubrication of thread and pressure.

Pressure range selection				
Pressure range code	Pressure reference	Pressure range	Overload pressure	Remark
35k	G	0∼35kPa	200%FS	
70k	G	0∼70kPa	200%FS	
100k	G、 A	0∼100kPa	200%FS	
160k	G	0∼160kPa	200%FS	
250k	G、 A	0∼250kPa	200%FS	
400k	G	0∼400MPa	200%FS	
600k	G、 A	0∼600MPa	200%FS	
1M	G、S、A	0∼1MPa	150%FS	
1.6M	S	0∼1.6MPa	150%FS	
2.5M	S	0∼2.5MPa	150%FS	
4M	S	0∼4MPa	150%FS	
6M	S	0∼6MPa	150%FS	
10M	S	0∼10MPa	150%FS	
16M	S	0∼16MPa	150%FS	
25M	S	0∼25MPa	150%FS	
40M	S	0∼40MPa	150%FS	

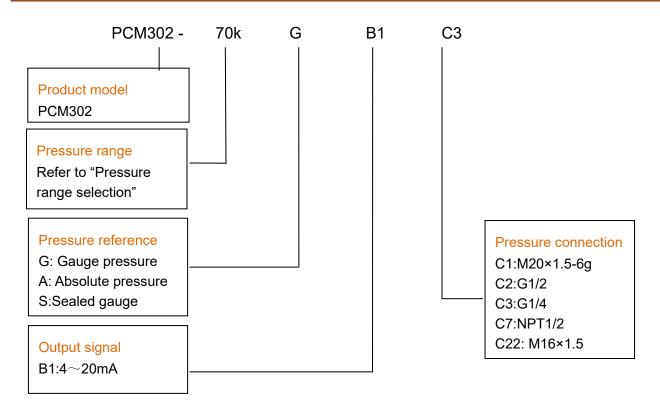


60M	S	0 \sim 60MPa	150%FS	
NP1	G	±100kPa	200%FS	
(-100∼250)k	G	-100 \sim 250kPa	200%FS	
(-100∼600)k	G	-100 \sim 600kPa	200%FS	
(-0.1∼1)M	G	-0.1~1.0MPa	200%FS	
(-0.1~1.6)M	G	-0.1~1.6MPa	200%FS	

Note: G stands for gauge pressure, A, absolute pressure, S, sealed gauge pressure.

Accessory			
Name	Appearance	Description	Item number
M4 damper	C.	Refer to "Application of damper"	100030500027

How to order



Example: PCM302-70kGB1C3

The product model is PCM302, 70k: pressure range $0 \sim$ 70kPa, G: pressure reference Gauge pressure, B1: output signal $4 \sim$ 20mA, C3: pressure connection G1/4.



1.Ensure compatibility between measured medium and contacting part of product when placing an order.

2.For special requirements on performance parameters and appearance of the product, we can provide customization.

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.

Contact us

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