

PCM390 Universal Pressure Transmitter

Features

- Compact structure
- Digital circuit compensation
- Strong anti-interference, good long-term stability
- Small diameter, small size, easy to install and use
- Can measure absolute pressure, gauge pressure and sealed gauge pressure
- A variety of electrical connections
- Liquid contacting diaphragm 316L
- Suitable for mass production

Applications

- Air compressor
- Hydraulic and pneumatic equipment
- Servo valves and drive
- Air conditioning systems
- Piping systems

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.



PCM390 pressure transmitter is specially designed for small and medium equipment applications such as booster pumps and air compressors. It is also applicable to a wide range of industrial applications, with a variety of structures, output forms and pressure connections to meet the requirements of most applications. PCM390 is designed with compact structure which especially applies to the installation in small space.

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

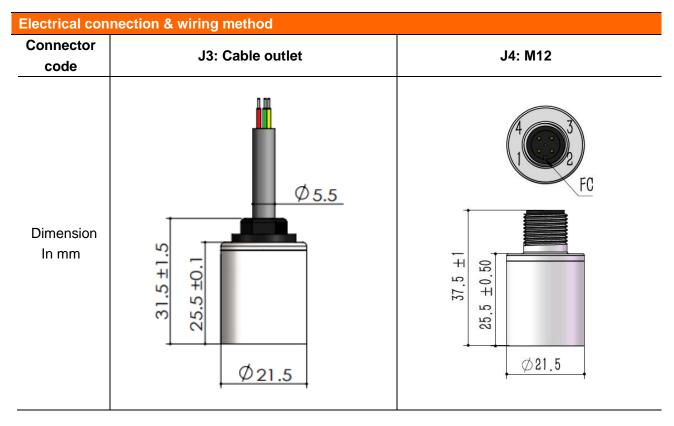
Pressure range	0∼35kPa···25MPa
Pressure reference	Gauge pressure, Absolute pressure, Sealed gauge pressure
Accuracy	±0.5%FS(typ.); ±1%FS(max.)
Hysteresis & repeatability	≤±0.1%FS
Temp. drift	≤±1.5%FS(-20° C~85° C)

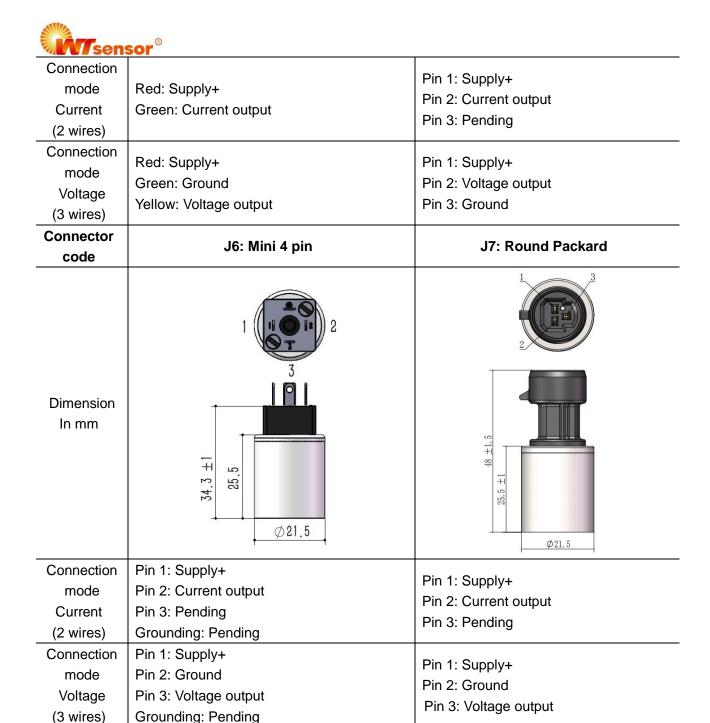
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www.sensor			
Response time	<10ms		
Service life	≥10×10 ⁶ pressure cycles		
Ambient temp.	-20° C~80° C		
Medium temp.	-30° C~105° C		
Storage temp40° C~120° C			
EMC-interference	IEC 61000-6-3		
EMC-immunity IEC 61000-6-2			
Insulation resistance ≥100MΩ/500VDC(200MΩ/250VDC)			
Vibration resistance	Sine curve: 20g, 25Hz~2kHz; IEC 60068-2-6		
	Random: 7.5grms, 5Hz~1kHz; IEC 60068-2-64		
Shook registered	Shock: 100g/11ms; IEC 60068-2-27		
Shock resistance	Free fall: 1m; IEC 60068-2-32		
Protection	IP65		
Material	Diaphragm and sensor inside (AISI316L)		
	Housing and pressure port: (AISI304)		
	Electrical connection: PA66		
Net weight	50g~90g		
Size of hexagon	HEX22		

Supply & output					
Code	B1	B7	B6		
Output	4∼20mA	0∼10V	0.5∼4.5V R/M		
Supply	12∼30VDC	12∼30VDC	5VDC		

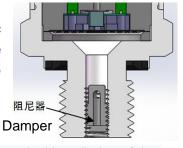




Application of damper

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.



Installation

If the fluids containing particles, then nozzle clogging maybe occur, and the vertical installation of the transmitter minimizes the risk of clogging.



Accessory

Name	Appearance	Description	Item number
		1 Refer to "Application of damper"	100020100027
M4 damper		2 Pressure ports with thread code	
		C12, C34 and C36 are not	100030100027
		applicable	

Pressure port

Thread code	C3: G1/4	C5: NPT1/4-18	C11: 7/16-20UNF
Dimension In mm	22 9 G1/4	22 9 NPT1/4	7/16-20UNF
Recommended torque	15~25 N•m	15~25 N•m	15~25 N•m
Thread code	C18: NPT1/8	C11F: 7/16-20UNF Female	
Dimension In mm	22 NPT1/8	7/16-20UNF	
Recommended torque	15~25 N•m	15~25 N•m	

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

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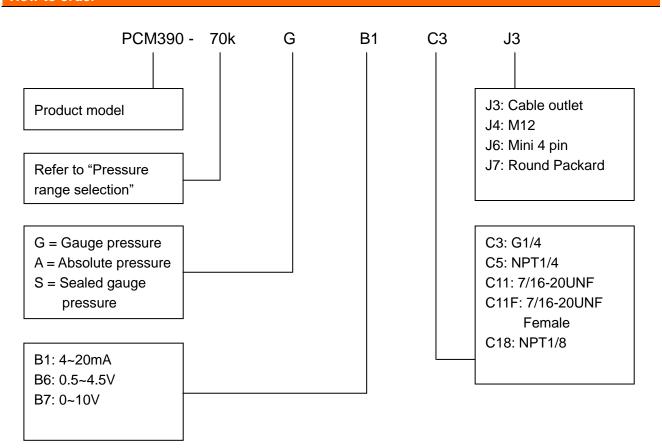


Press	ire i	rand	e se	lection

Pressure range code	Pressure reference	Pressure range	Overpressure	Burst pressure	Remark
35k	G	0~35kPa	300%FS	600%FS	1
70k	G	0∼70kPa	300%FS	600%FS	1
100kC	G、A	0∼100kPa	200%FS	500%FS	
160kC	G	0∼160kPa	200%FS	500%FS	
250kC	G、A	0~250kPa	200%FS	500%FS	
400kC	G	0~400kPa	200%FS	500%FS	
600kC	G	0~600kPa	200%FS	500%FS	
1MC	G	0∼1MPa	200%FS	500%FS	
1.6MC	G、S	0~1.6MPa	200%FS	500%FS	
2.5MC	S	0~2.5MPa	200%FS	500%FS	
4MC	S	0∼4MPa	200%FS	400%FS	
6MC	S	0∼6MPa	200%FS	300%FS	
10M	S	0~10MPa	200%FS	300%FS	1
16M	S	0~16MPa	150%FS	200%FS	1
25M	S	0~25MPa	150%FS	200%FS	1)

Note: (1) G stands for gauge pressure, A, absolute pressure, S, sealed gauge pressure. (2) "①" is non-glass header, please note.

How to order





Example: PCM390-70kGB1C3J3

Refer to product model PCM390, pressure range 0~70kPa, pressure reference gauge pressure, output signal 4~20mA, pressure port G1/4, electrical connection cable outlet.

Ordering tips:

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

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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