

PCM350J Built-in Flush Diaphragm Pressure Transmitter

Features

- 316L flush diaphragm structure adopted for pressure connection
- Sanitary, anti-fouling
- Can measure absolute pressure, gauge pressure and sealed gauge pressure
- Good seal, long-term stable work
- High vibration and shock resistance
- Optional output signal,
- Customization available

Applications

- Medical and health, food, wine, dairy products, drinks and other occasions which are viscous and easy to block, with high hygiene requirements and easy-cleaning requirements
- Environmental protection chemical coating, polyurethane equipment, paint detection system 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.



Overview

PCM350J Built-in Flush Diaphragm Pressure Transmitter adopts flush diaphragm to directly receive pressure signal, takes diffused silicon pressure sensor as sensitive element and uses standard silicone oil or olive oil as pressure transfer medium.

The measuring end adopts special welding processing flush isolating diaphragm made of 316L stainless steel. The structure is compact and corrosion-resistant, which prevents scaling, unsanitary and sticky pressure blocking. It is especially suitable for pressure measurement of viscous fluids in medical and food industries with hygienic requirements.

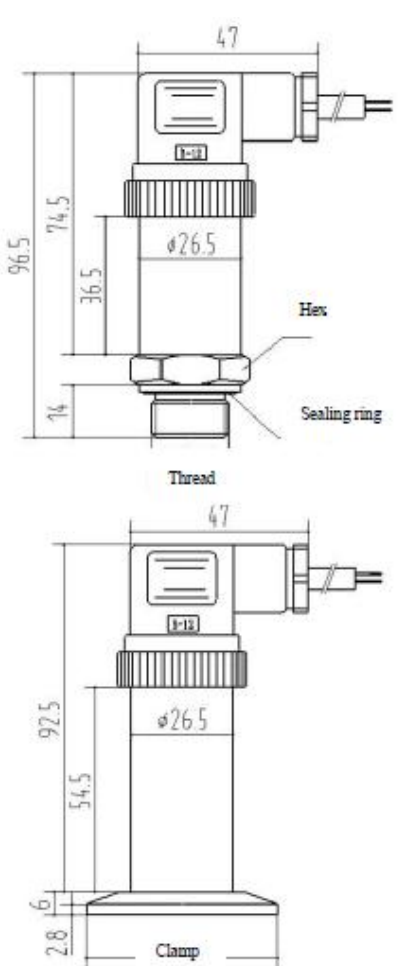
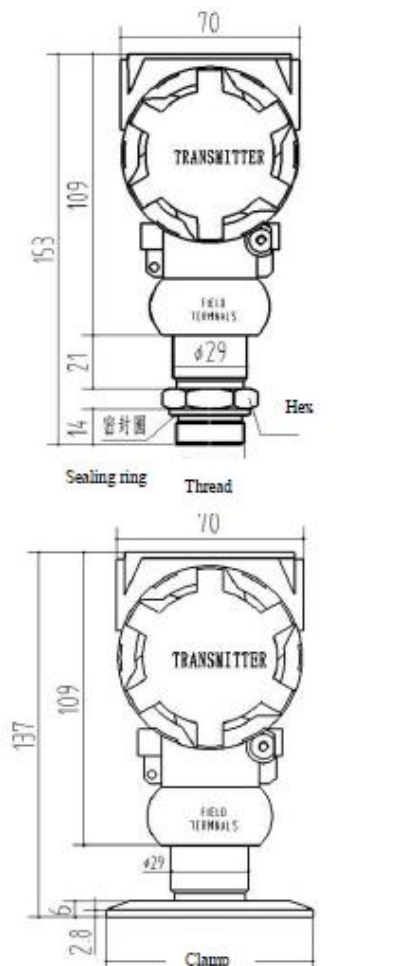
Notes:

- 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.

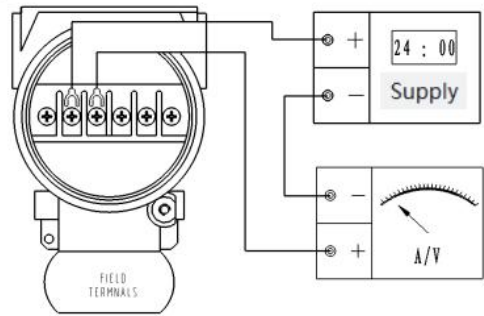
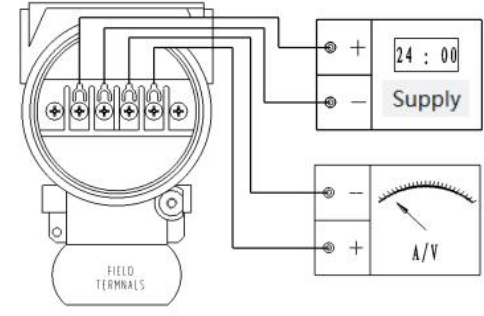
Performance parameters

Pressure range	0~35kPa...10MPa (For Tri-clamp connection, the maximum pressure range is 2.5Mpa)
Pressure reference	Gauge pressure, absolute pressure, sealed gauge pressure
Supply & output	Supply:12-30V;Output:4-20mA Supply:12~24V;Output:0~5V, 1~5V, 0.5~4.5V, 0~10V
Accuracy	0.5%FS(typ.)
Hysteresis & repeatability	≤0.1%FS
Temperature drift	≤1.5%FS(@-20℃~85℃)
Response time	<25ms (up to 90%FS)
Durability	≥10 ⁶ pressure cycles
Ambient temp.	-20℃~85℃
Operating temp.	-40℃~85℃
Storage temp.	-40℃~120℃
Insulation resistance	≥100MΩ/250VDC
Vibration resistance	20g(20-5000HZ)
Shock resistance	10g/11ms
Protection	IP65
Medium compatibility	All the media compatible with stainless steel 316L

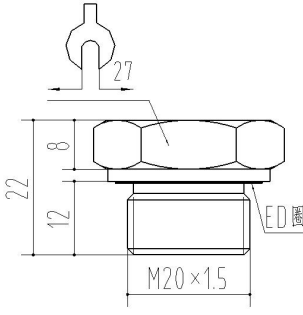
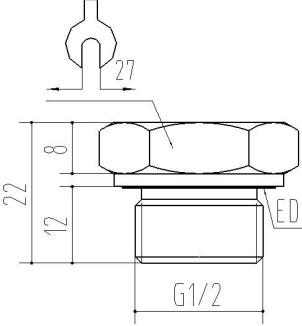
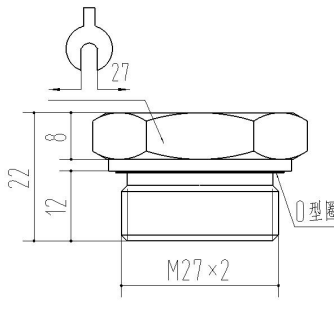
Electrical connection and wiring method

Connector code	J5: DIN43650	J1: 2088 housing
Dimension In mm		

Electrical connection and wiring method (cont.)

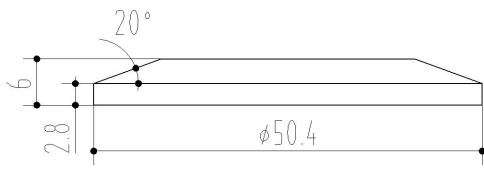
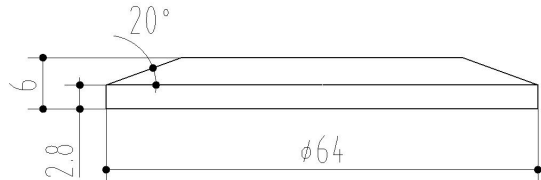
Protection	IP65	IP65
Connection mode (Current output)	Red: Supply + Green: Current output	
Connection mode (Voltage output)	Red: Supply + Green: GND Yellow: Voltage output	

Pressure port

Thread code	C1: M20×1.5-6g	C2: G1/2	C25: M27×2-6g
Dimension In mm			
Recommended torque	15~25Nm	15~25Nm	15~25Nm

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

Clamp size



Clamp code	K1: 2 inch clamp	K2: 2.5 inch clamp
Dimension In mm		

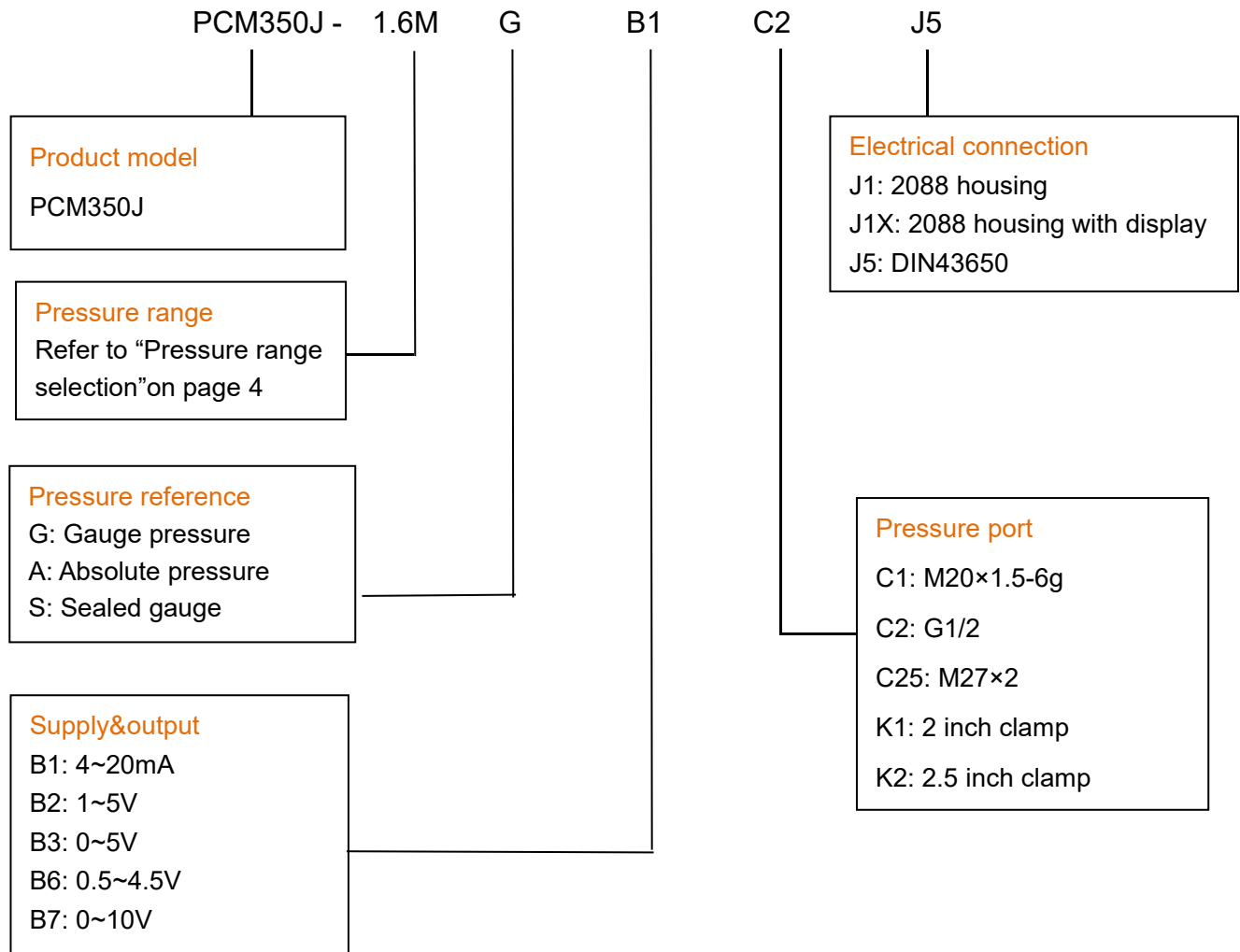
Pressure range selection

Code	Pressure reference	Pressure range	Overpressure	Burst pressure	Remark
35k	G	0~35kPa	300%FS	500%FS	
70k	G	0~70kPa	300%FS	500%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, S	0~1MPa	200%FS	300%FS	
1.6M	G, A, S	0~1.6MPa	200%FS	300%FS	
2.5M	G, A, S	0~2.5MPa	200%FS	300%FS	
4M	G, A, S	0~4MPa	150%FS	300%FS	
6M	S	0~6MPa	150%FS	300%FS	
10M	S	0~10MPa	150%FS	300%FS	

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

Accessories

Name	Appearance	Description	Material no.
Domestic DIN43650 connector		Domestic (standard option)	100040301005
Imported DIN43650 connector		Imported	100040301013



Example: PCM350J-1.6MGB1C2J5

PCM350J: product model. 1.6M: pressure range 0~1.6MPa. G: gauge pressure. B1: output signal 4~20mA. C2: pressure port G1/2. J5: Electrical connection DIN43650.

Ordering tips

1. Please ensure compatibility between the measured medium and the contacting part of the product when placing an order.
2. If there are special requirements for product appearance and performance parameters, we can provide customization.

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