

# PCM350J Built-in Flush Diaphragm Pressure Transmitter

## Features

- 316L flush diaphragm structure adopted for the pressure connection
- Sanitary, anti-scaling
- Can measure absolute pressure, gauge pressure, and sealed gauge pressure
- Good sealing performance; 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 that 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

The PCM350J Built-in Flush Diaphragm Pressure Transmitter uses a flush diaphragm to directly receive the pressure signal. It takes the diffusion silicon pressure sensor as the sensitive element and standard silicone oil or olive oil as the pressure transfer medium. The measuring end adopts the SS316L flush diaphragm with special welding processing. It has a compact structure and is corrosion-resistant, which prevents scaling, unsanitary, and sticky pressure blocking. PCM350J is especially suitable for pressure measurement of viscous fluids in the medical and food industries, which have hygienic requirements.

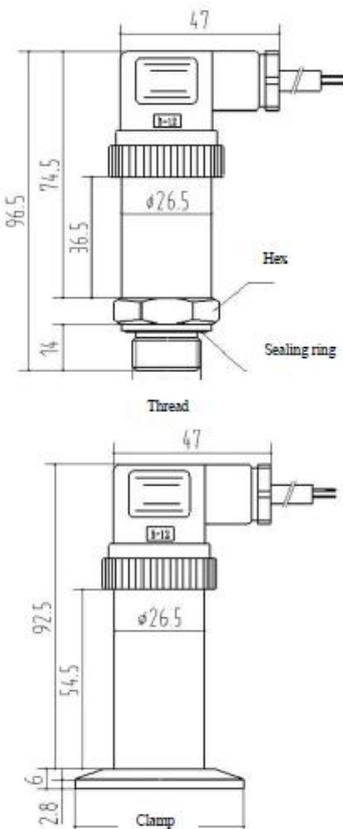
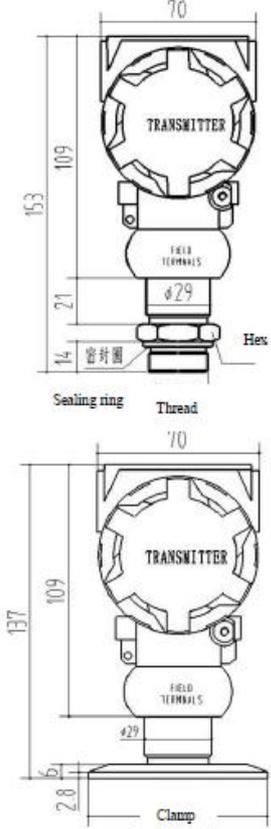
### Notes:

- 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.

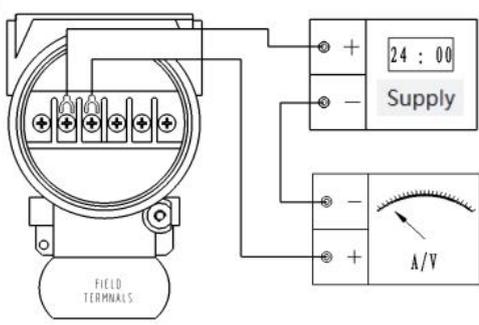
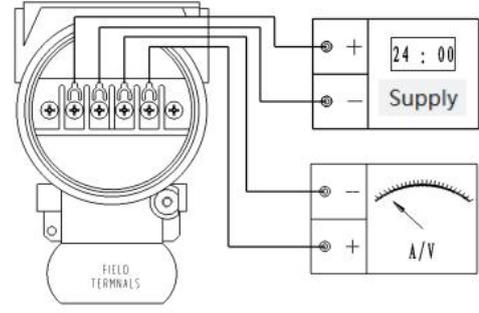
### Performance parameters

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 signal	Supply: 12~30VDC; Output signal: 4~20mA Supply: 12~24VDC; Output signal: 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 <sup>6</sup> 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

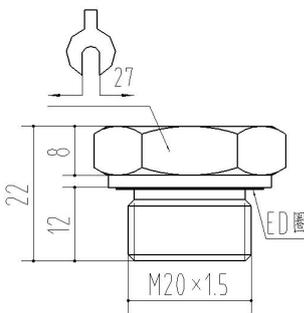
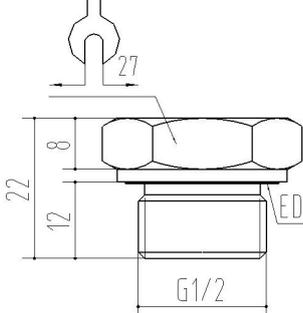
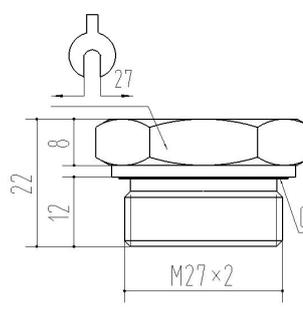
### Electrical connection and wiring method

Connector code	J5: DIN43650	J1: 2088 housing
Dimension In mm		
Protection	IP65	IP65

## Electrical connection and wiring method (cont.)

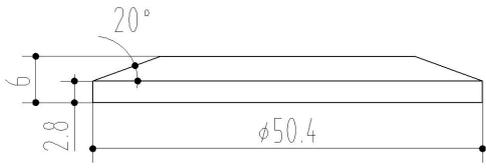
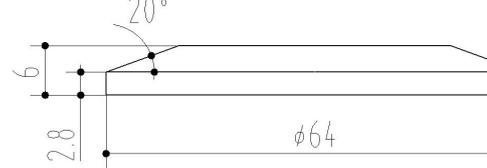
<p>Connection mode (Current output)</p>	<p>Red: Supply+ Green: Current output</p>	
<p>Connection mode (Voltage output)</p>	<p>Red: Supply+ Green: GND Yellow: Voltage output</p>	

## 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: The torque depends on all kinds of factors, such as the gasket material, kitting material, thread lubrication, and pressure.

## Clamp size

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

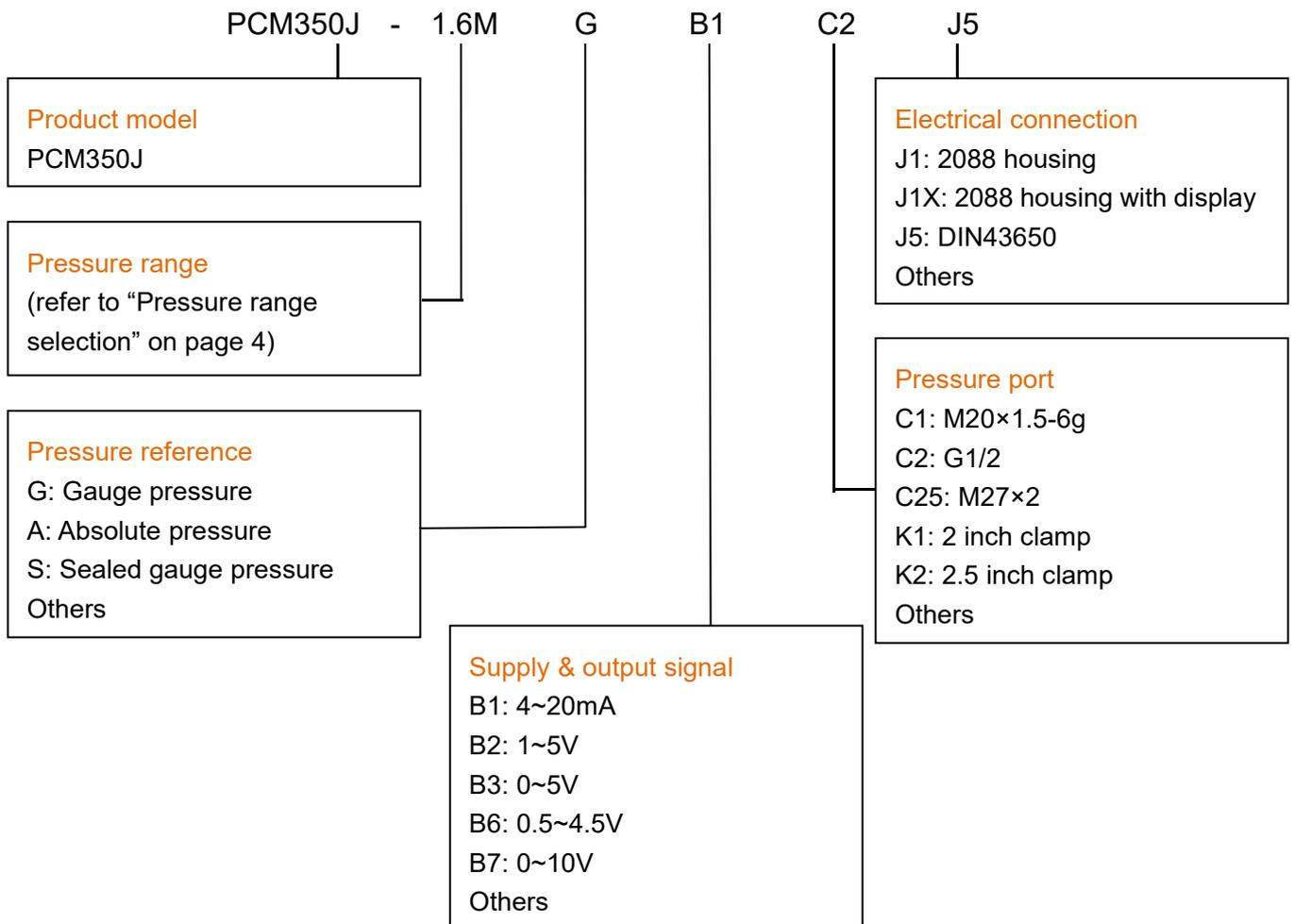
### Pressure range selection

Code	Pressure reference	Pressure range	Overload pressure	Burst pressure	Note
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.
<b>Domestic DIN43650 connector</b>		Domestic (standard option)	100040301005
<b>Imported DIN43650 connector</b>		Imported	100040301013



**Example:** PCM350J-1.6MGB1C2J5

PCM350J, 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 Ensure the measured medium is compatible with the contacting part of the product.
- 2 For special requirements on the appearance and performance parameters, customization is available.

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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