

PCM350 Flush Diaphragm Pressure Transmitter with The Thread

Features

- 316L flush diaphragm structure adopted for pressure connection
- Sanitary, anti-scaling
- Can measure absolute pressure, gauge pressure, and sealed reference pressure
- Good sealing performance; long-term stable work
- High vibration and shock resistance
- Optional output signal, can be customized

Applications

- Suitable for situations prone to blockage, requiring high sanitary standards, and easy cleaning, such as in pharmaceutical, healthcare, food processing, brewery, dairy, and beverage industries.
- 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.
- 4 Misuse of the product may cause danger or personal injury.



Overview

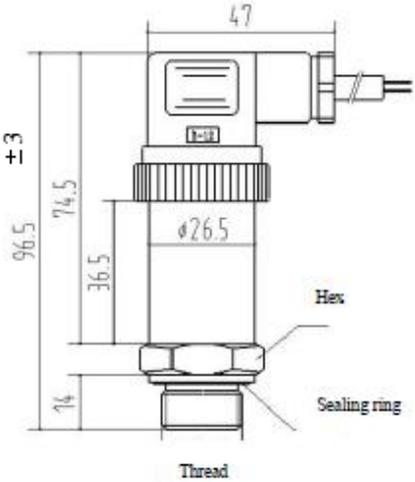
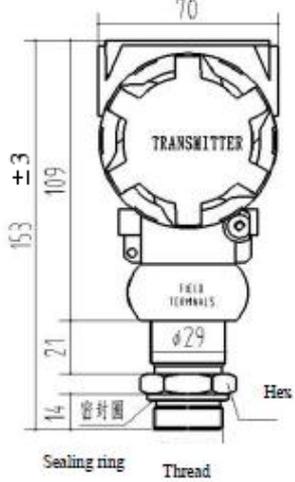
The PCM350 Flush Pressure Transmitter adopts a flush diaphragm to directly receive the pressure signal. It takes a diffusion silicon pressure sensor as the sensitive element and standard silicone oil or olive oil as the pressure transfer medium.

The measuring end of PCM350 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. PCM350 is especially suitable for pressure measurement of viscous fluids in the medical and food industries, which have hygienic requirements.

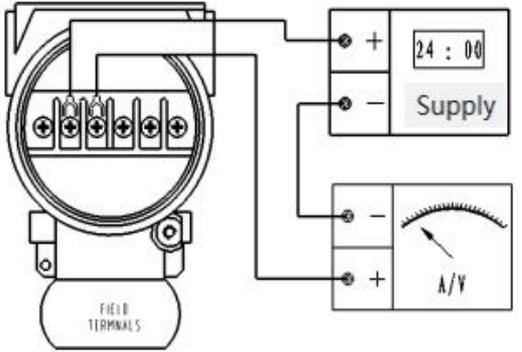
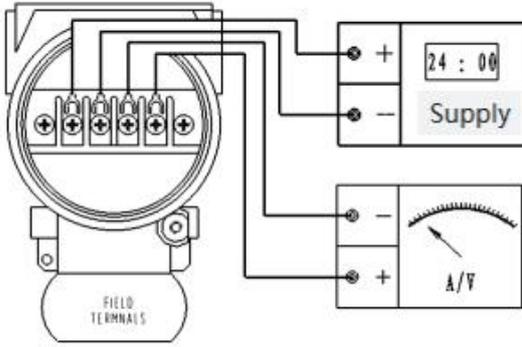
Notes:

- 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.

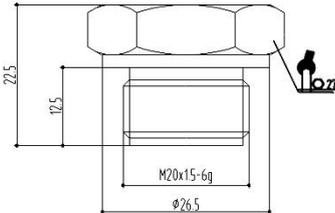
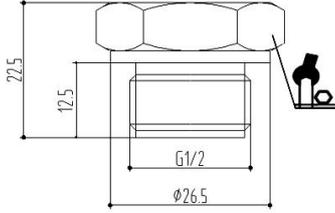
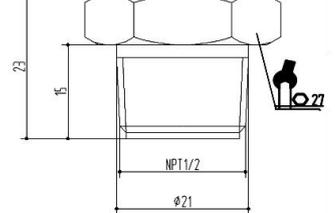
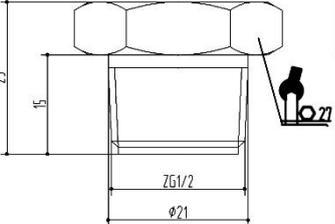
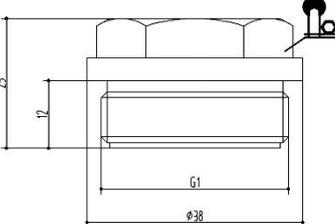
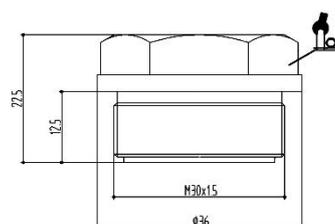
Performance parameters	
Pressure range	-100kPa...0~35kPa...10MPa
Pressure reference	Gauge pressure, absolute pressure, sealed gauge pressure
Supply & output signal	4~20mA (12~30VDC) 0~5V, 1~5V, 0.5~4.5V, 0~10V (12~24VDC) without display
Accuracy	±0.5%FS (@25±5°C)
Hysteresis & repeatability	0.1%FS
Temperature drift	1.5%FS (@-20°C~85°C)
Response time	Analog circuit: ≤2ms (up to 90%FS) Digital circuit: ≤100ms (up to 90%FS)
Durability	≥10 ⁶ pressure cycles
Ambient temp.	-20°C~85°C
Operating temp.	-10°C~70°C
Storage temp.	-40°C~120°C
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
Ex-proof level	Intrinsic safety explosion-proof Ex ia II C T6 Ga

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>	

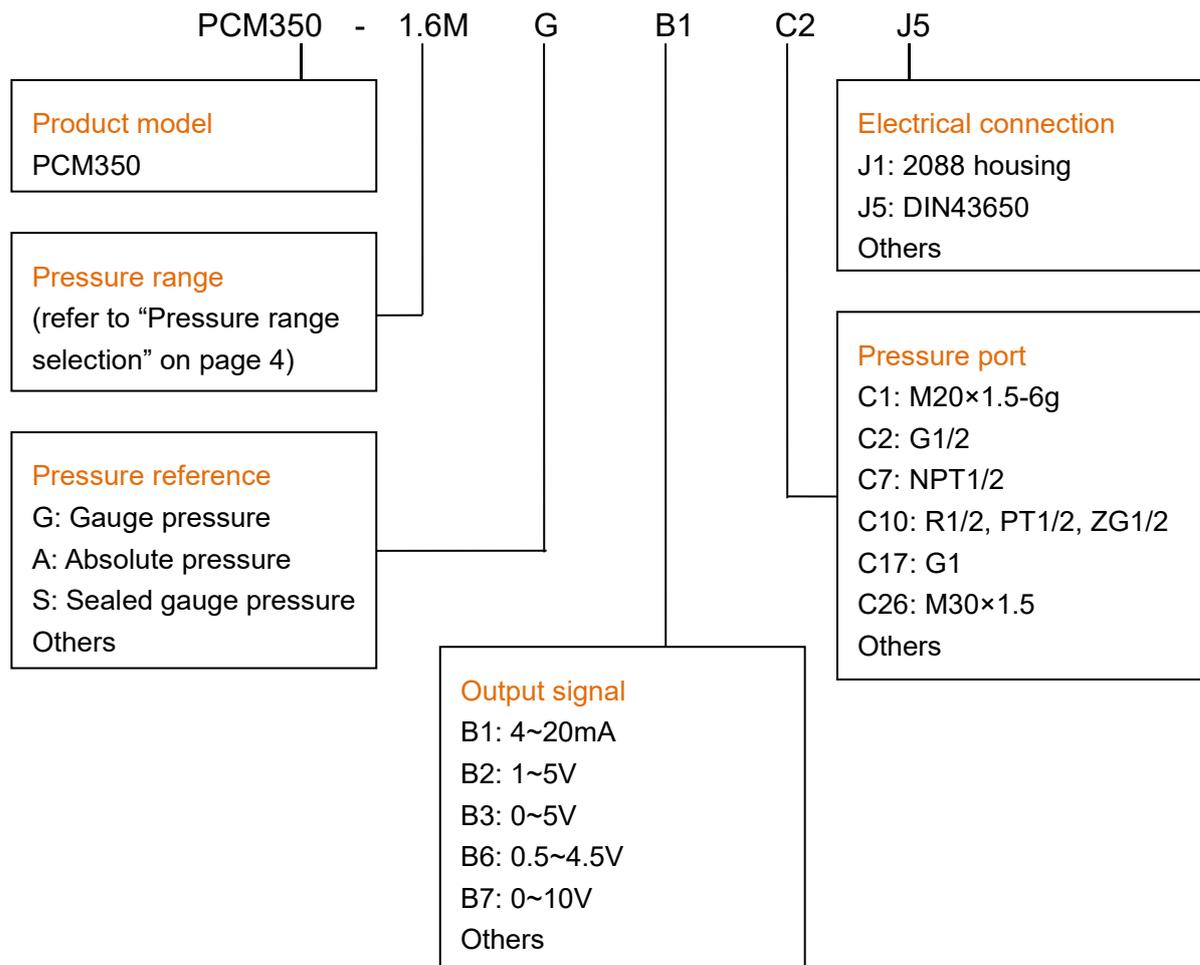
Pressure connection

Thread code	C1: M20×1.5-6g	C2: G1/2	C7: NPT1/2
Dimension In mm			
Thread code	C10: R1/2, PT1/2, ZG1/2	C17: G1	C26: M30×1.5
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	0~100kPa	200%FS	300%FS	
160k	G	0~160kPa	200%FS	300%FS	
250k	G	0~250kPa	200%FS	300%FS	
400k	G	0~400kPa	200%FS	300%FS	
600k	G	0~600kPa	200%FS	300%FS	
1M	G, S	0~1MPa	200%FS	300%FS	
1.6M	G, S	0~1.6MPa	200%FS	300%FS	
2.5M	G, S	0~2.5MPa	200%FS	300%FS	
4M	G, 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
Hirschmann plug made in China		Made in China (default)
Imported Hirschmann plug		Totally imported



Example: PCM350-1.6MGB1C2J5

Product model PCM350, pressure range 0~1.6MPa, 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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