

S-PCM-350 SMART LINE

EXPROOF PRESSURE TRANSMITTER



S-PCM-350 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 S-PCM-350 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.

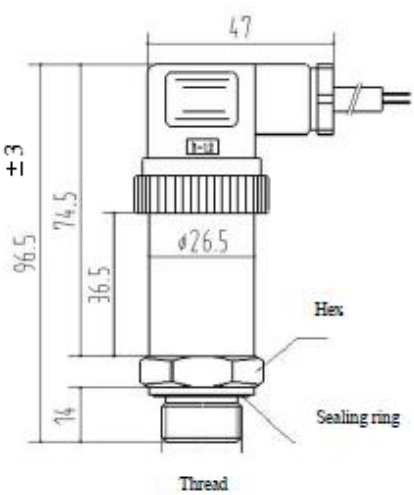
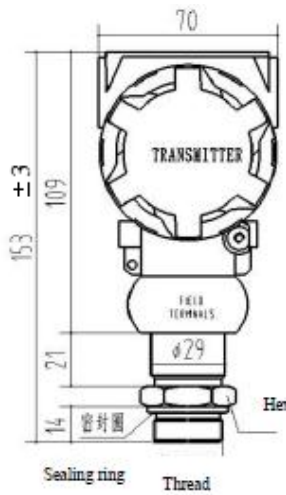
The measuring end of S-PCM-350 adopts the SS316L flush diaphragm with special welding processing. It has a compact structure and is corrosion-resistant, which prevents scaling, unsanitary, and sticky pressure blocking. S-PCM-350 is especially suitable for pressure measurement of viscous fluids in the 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			

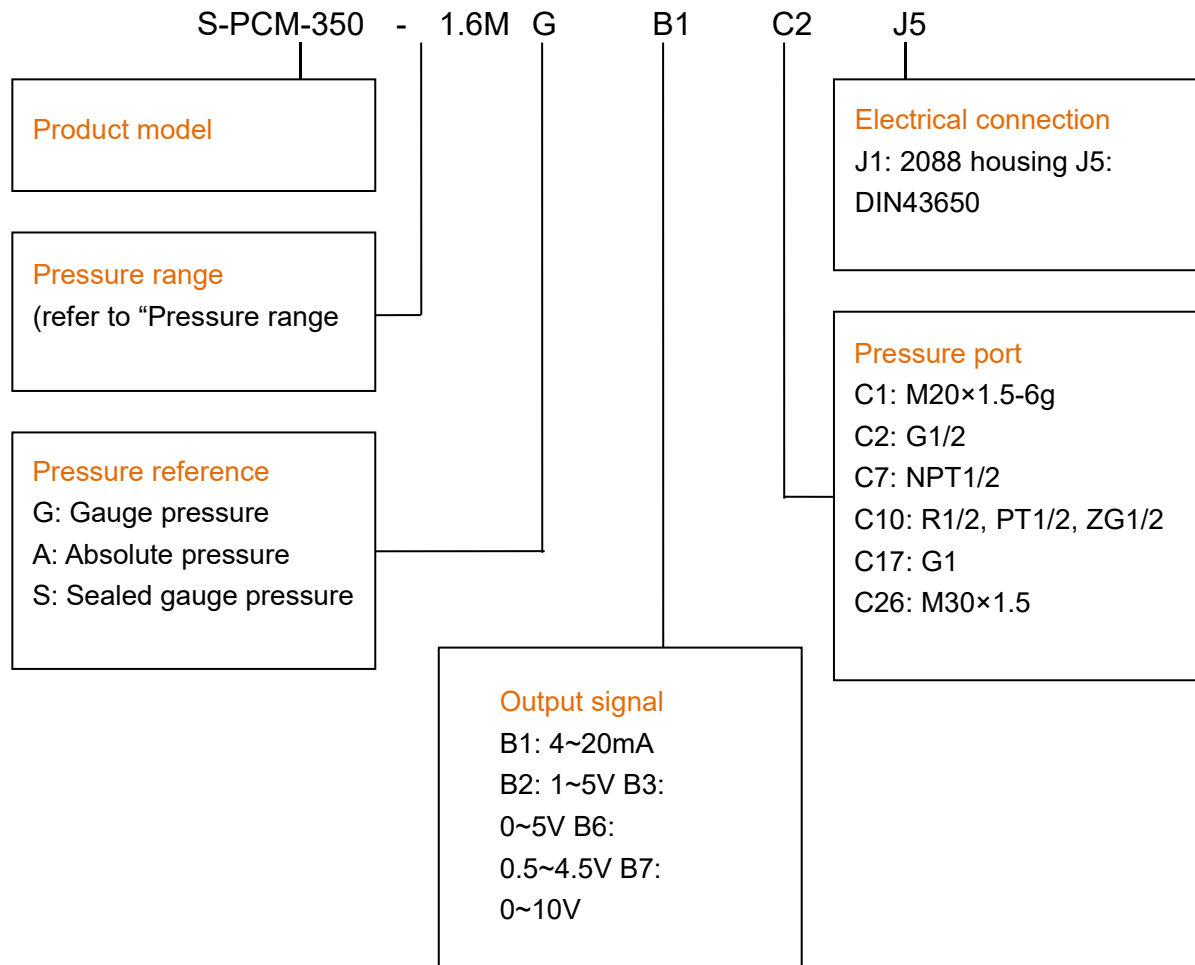
Pressure range selection

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
Hirschmann plug	



Example: S-PCM-350- 1.6MGB1C2J5

Product model S-PCM-350, pressure range 0~1.6MPa, gauge pressure. B1: output signal 4~20mA. C2: pressure port G1/2. J5: electrical connection DIN43650

Ensure the measured medium is compatible with the contacting part of the product.

For special requirements on the appearance and performance parameters, customization is available