

# PCM340 Pro Non-Cavity Flush Pressure Transmitter

## Features

- Suitable for measuring the viscous liquid
- Easy to install
- The zero point and full span of the product can be adjusted externally
- Strong anti-vibration capacity
- Good stability

## Applications and Industries

- Petroleum
- Scientific experiment
- Food
- Equipment matching

### Notes:

- 1 Do not misuse documentation.
- 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.



## Product overview

The PCM340 Pro Non-Cavity Flush Pressure Transmitter utilizes the high-precision foil strain gauge and the non-cavity measuring diaphragm, making it particularly suitable for measuring fluids with high viscosity. It adopts the optimized installation structure, which makes the product have good anti-vibration capacity. The PCM340 is equipped with a variety of characteristic amplifying circuits, such as anti-interference, high-temperature-resistant, and intrinsic safety explosion-proof amplifying circuits, suitable for oil fields, food, and many other measurement control situations.

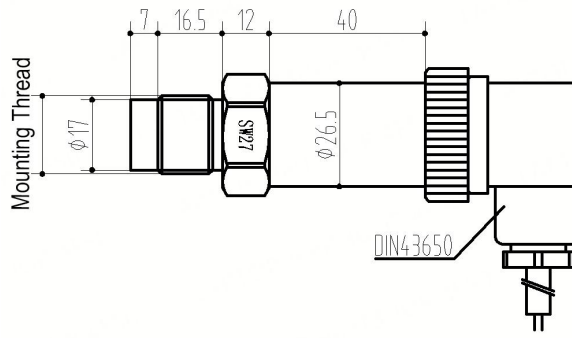
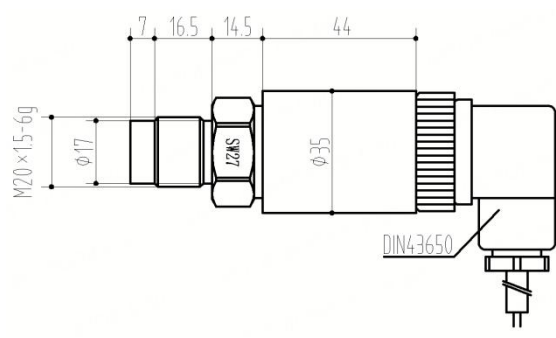
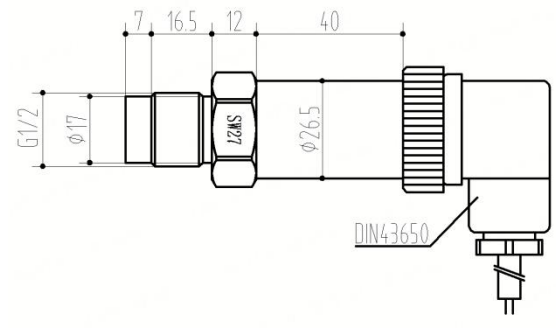
### Notes:

- 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.

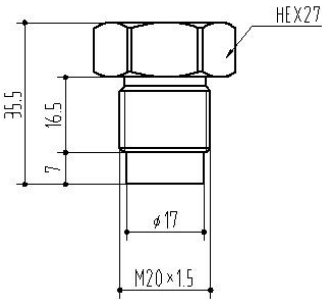
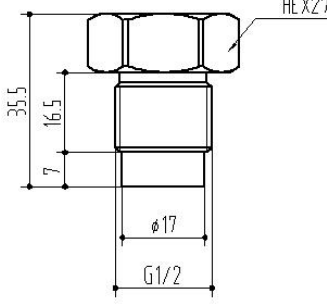
### Performance parameters

Pressure range	0~2MPa...150MPa
Pressure reference	Sealed gauge pressure
Supply & output signal	4~20mA (9~30VDC)
Accuracy	0.5%FS(typ.)
Operating temp.	-20°C~85°C
Compensated temp.	-20°C~85°C
Storage temp.	-20°C~85°C
Zero temp. error	0.5%FS/10°C
Full span temp. error	0.5%FS/10°C
Overpressure	135%FS (Pressure range≤15MPa); 120%FS (Pressure range≥15MPa)
Burst pressure	200%FS (Pressure range≤10MPa); 150%FS (Pressure range≥10MPa)
Load capacity	≥[(supply voltage-6.5V)/0.02A]Ω
Mechanical durability	≥5000000 pressure cycles
Insulation resistance	≥200MΩ/500VDC
Long-term stability	±0.25%FS/year
Medium compatibility	Liquids or gases compatible with stainless steel 17-4PH

### Appearance structure

Dimension In mm	2MPa	
	>2MPa~150MPa (M20×1.5-6g)	
	>2MPa~150MPa (G1/2)	

### Pressure connection

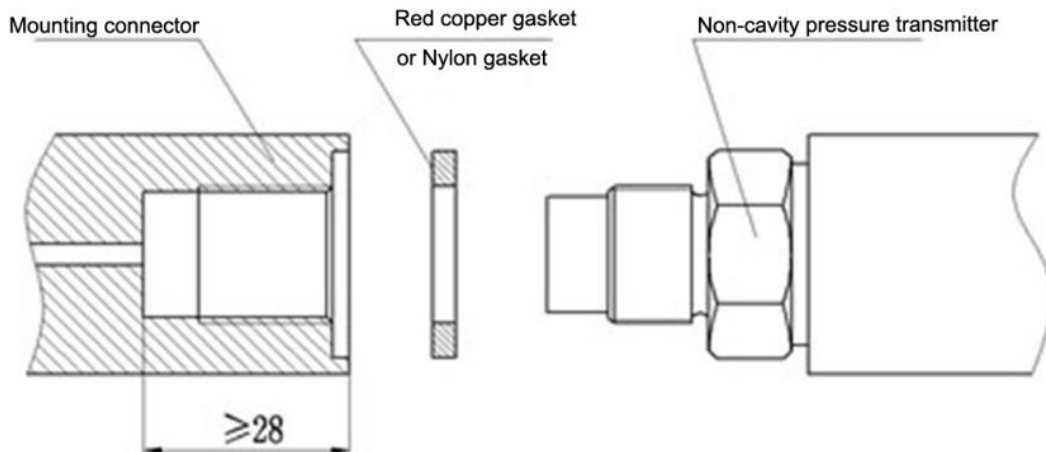
Thread code	C1: M20×1.5-6g	C2: G1/2
Dimension In mm		
Recommended torque	15~25Nm	15~25Nm

Note: Torque depends on various factors, such as the gasket material, supporting materials, thread lubrication, and pressure.

### Pressure range selection

Pressure range code	Pressure range	Overpressure	Burst pressure	Note
2MS	2MPa	135%FS	200%FS	
2.5MS	2.5MPa	135%FS	200%FS	
4MS	4MPa	135%FS	200%FS	
6MS	6MPa	135%FS	200%FS	
10MS	10MPa	135%FS	200%FS	
16MS	16MPa	120%FS	150%FS	
25MS	25MPa	120%FS	150%FS	
40MS	40MPa	120%FS	150%FS	
60MS	60MPa	120%FS	150%FS	
100MS	100MPa	120%FS	150%FS	
150MS	150MPa	120%FS	150%FS	

### Installation instruction



### Installation tips:

(1) This product can be directly installed on the pipe (or on the container wall) through the M20×1.5 connection; during the installation, the front end of the thread should be equipped with the red copper gasket or nylon gasket for the front end face sealing. Besides, the flush inductive head at the front end of the thread cannot touch the front end and side wall of the mounting part, as this would affect the performance of the pressure transmitter.

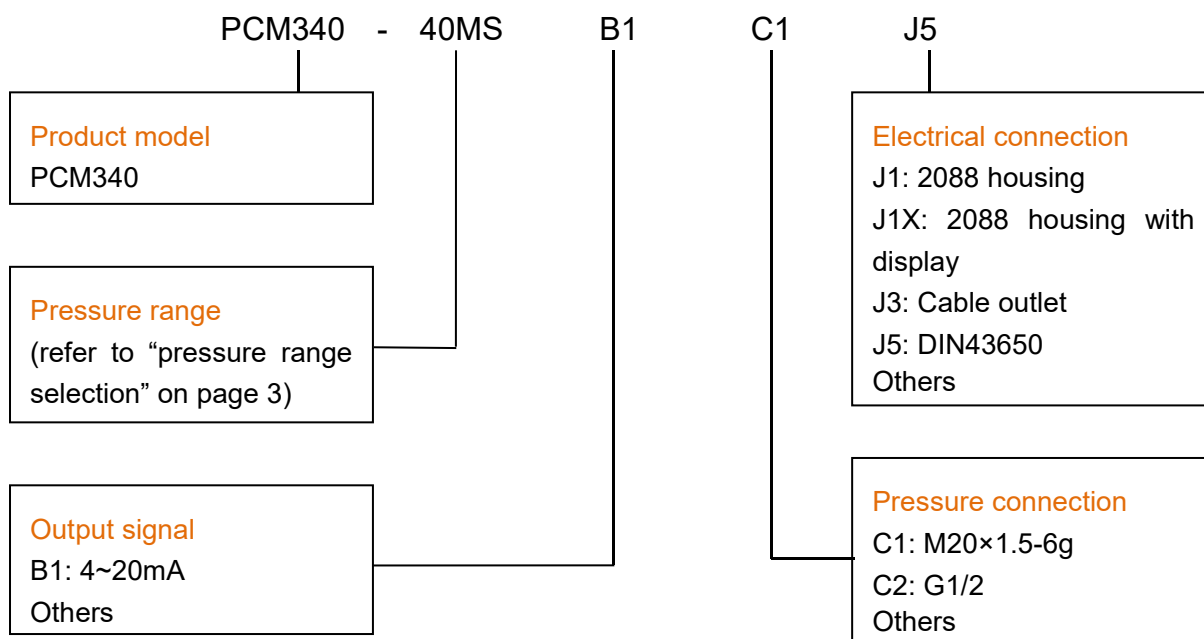
(2) When measuring the medium with excess temperature, the impulse line or other cooling equipment should be used, so as to lower the temperature into the operating temperature range of the pressure transmitter.

(3) When installing outdoors, the transmitter should be placed in a ventilated and dry place, avoiding direct exposure to strong light and rain; otherwise, it will cause performance degradation or malfunction.

(4) If no output or abnormal output after installation, please check:

- ① Whether the electrical connection is accurate and firm;
- ② Whether the supply voltage is too low and whether the load resistance is too high.

### How to order



### Example: PCM340-40MSB1C1J5

Product model: PCM340, pressure range 0~40MPa, power supply 24V, output signal 4~20mA, pressure connection M20×1.5-6g, DIN43650 connector..



## 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.

## Contact us

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