

# PCM300Y Industrial Pressure & Level Transmitter

## Features

- 316L stainless steel isolation diaphragm structure
- High precision, all stainless steel structure
- Micro amplifier, voltage and current signal output
- Diversified forms and structures, easy to install and use
- Wide range, can measure absolute pressure, gauge pressure and sealed gauge pressure
- Vibration and shock resistance

## Application

- Equipment supporting, pneumatic, hydraulic, energy saving, environmental protection and medical industry

### 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.



## Product overview

PCM300Y industrial pressure/level transmitter adopts diffused silicon pressure sensor as sensitive element. Through internal ASIC, the millivolt signal of sensor is transmitted into standard voltage and current signal. PCM300Y can be directly connected with computer, control instruments and display instruments etc. Using high stability and high reliability piezoresistive pressure sensor and high performance transmitter dedicated circuit, the overall performance is stable and reliable, and it can carry out long-distance signal transmission. PCM300Y can be directly put into the liquid to be tested for pipeline installation or drop-in installation with protection grade IP68. It is small in size, light in weight, easy to install, and convenient to use. It can be immersed in liquid for a long time and can be used in harsh outdoor scenes.

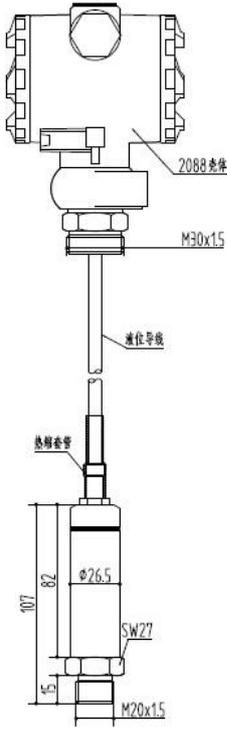
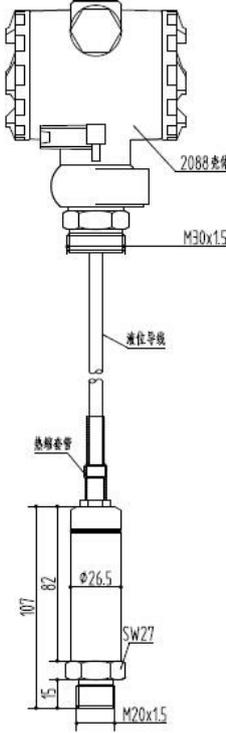
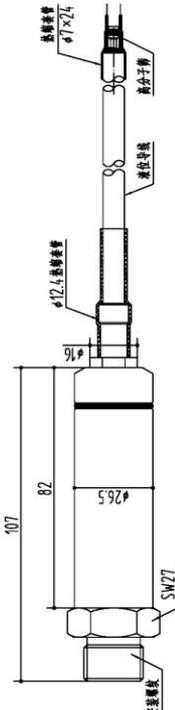
### Notes:

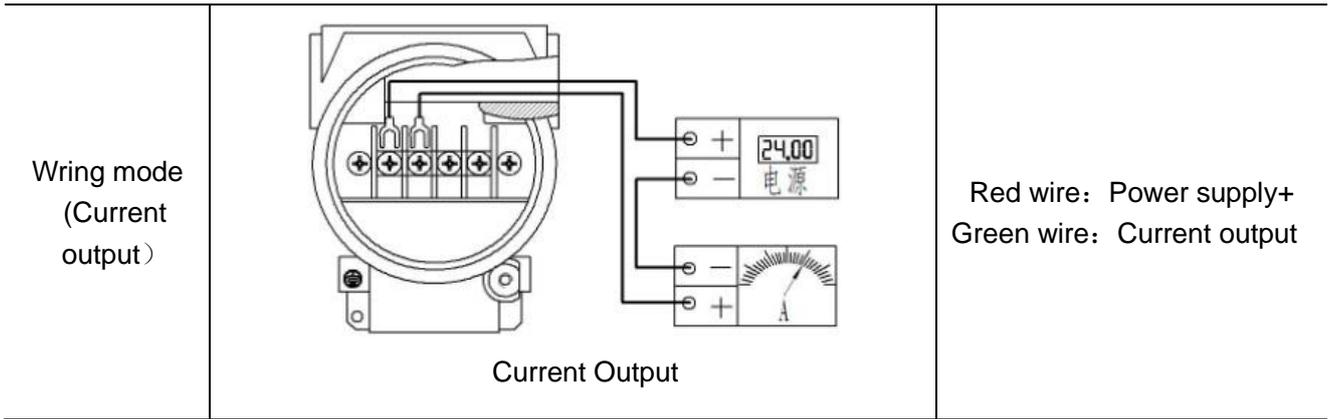
- 1 Do not misuse documentation.
- 2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- 3 Complete installation, operation, and maintenance information is provided in the instructions of the product.
- 4 Misuse of the product may cause danger or personal injury.

### Performance parameters

Pressure range	10kPa~20kPa...60MPa
Pressure reference	Gauge pressure, Absolute pressure, Sealed gauge pressure
Output	4 to 20mA (18~36V)
	4~20mA with display(12~36V)
Operating temp.	-20~85°C
Media temp.	-20~85°C
Storage temp.	-40~125°C
Zero temp.drift	±1.5%FS (@-20°C~85°C)
Sensitivity temp. drift	±1.5%FS (@-20°C~85°C)
Overload Pressure	150%FS
Vibration resistance	20g (20~5000Hz)
Shock resistance	100g (11ms)
Accuracy (linearity, repeatability and hysteresis)	0.5%F.S.
Insulation	200M $\Omega$ /250VDC
Response time	≤1ms (up to 90%FS)
Long-term Stability	±0.2%FS/year
Protection	IP68
Housing material	Stainless steel (SS316 for sensor inside)
Media compatible	Various media compatible with 316L stainless steel

### Electrical connection and wiring mode

Code	J1: 2088 Housing	J1X: 2088 with display	J3:Cable
Dimension In mm			

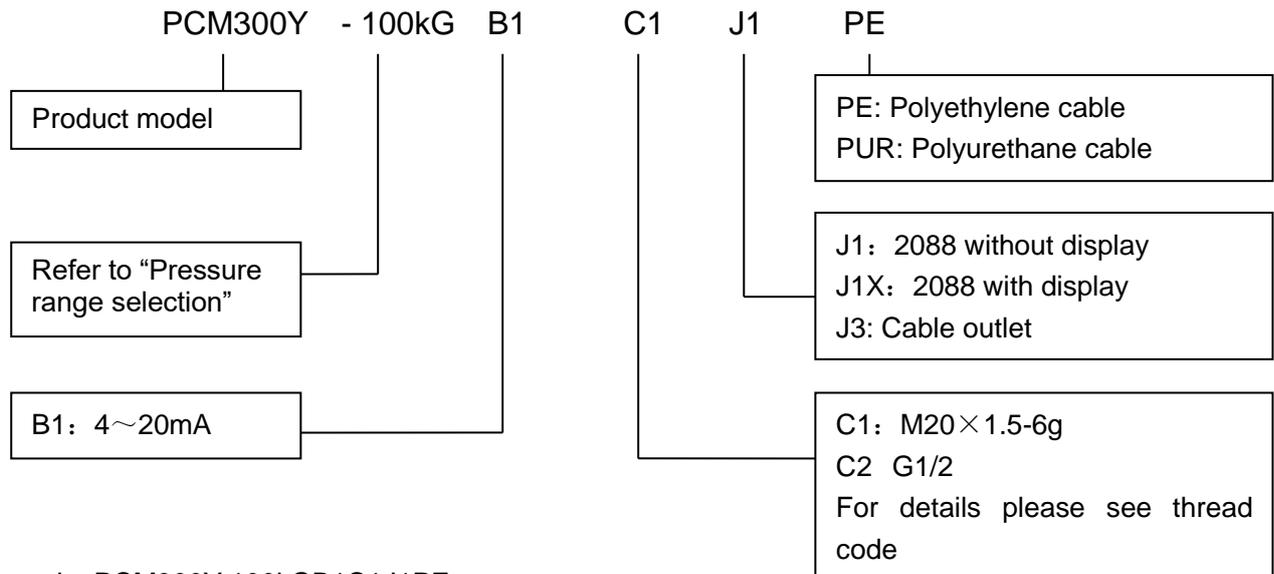


**Pressure connection**

Thread Code	C1: M20x1.5	C2: G1/2	C3: G1/4	C4: M14x1.5
Dimension In mm				
Thread Code	C7: NPT1/2	C5: NPT1/4	C6: PT1/4	C3F: G1/4 female
Dimension In mm				

Pressure range selection					
Pressure range code	Pressure reference	Pressure Range	Over pressure	Burst pressure	Notes
10kG	G	0~10kPa	150%FS	600%FS	
20kG	G	0~20kPa	150%FS	600%FS	
35kG	G	0~35kPa	150%FS	600%FS	
70kG	G	0~70kPa	150%FS	600%FS	
100kG	G	0~100kPa	150%FS	500%FS	
160kG	G	0~160kPa	150%FS	500%FS	
250kG	G	0~250kPa	150%FS	500%FS	
400kG	G	0~400kPa	150%FS	500%FS	
600kG	G	0~600kPa	150%FS	500%FS	
1MG	G	0~1MPa	150%FS	500%FS	
35kA	A	0~35kPa	150%FS	500%FS	
100kA	A	0~100kPa	150%FS	500%FS	
160kA	A	0~160kPa	150%FS	500%FS	
250kA	A	0~250kPa	150%FS	500%FS	
400kA	A	0~400kPa	150%FS	500%FS	
600kA	A	0~600kPa	150%FS	500%FS	
1.6MS	S	0~1.6MPa	150%FS	500%FS	
2.5MS	S	0~2.5MPa	150%FS	500%FS	
6MS	S	0~6MPa	150%FS	400%FS	
10MS	S	0~10MPa	150%FS	400%FS	
16MS	S	0~16MPa	150%FS	400%FS	
25MS	S	0~25MPa	150%FS	400%FS	
40MS	S	0~40MPa	150%FS	150%FS	
60MS	S	0~60MPa	150%FS	150%FS	

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



Example: PCM300Y-100kGB1C1J1PE

Refer to product model PCM300Y, pressure range 0-100kPa gauge pressure, output signal 4-20mA, pressure connection M20 × 1.5, electrical connector 2088 housing without display, wiring mode polyethylene cable.

### Ordering tips:

1. The default cable length of PCM300Y is 2 meters. If longer cable is needed, there will be extra charge. Please specify the cable length in the order.
2. The depth of submersible installation shall not exceed 20 meters.

### Contact us

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