

# PCM268 Smart Submersible Level Transmitter

## Features

- Piezoresistive diffused silicon pressure sensor
- Probe insertion measurement method, easy to install
- For level measurement
- Multiple protective structure design, high protection ability
- Fully welded structure, good sealing performance
- Full temperature range digital compensation, good stability
- 19 mm diameter, easy to install and use

## Applications

- Static pressure level, liquid irrigation, sewage, industrial water, pool, well, river, sea water, lake, 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.



## Product overview

PCM268 Smart Submersible Level Transmitter accurately measures static pressure of the liquid proportional to the level depth using high performance piezoresistive diffused silicon pressure sensor as the measuring element. The result is converted to standard current or voltage signal output through signal conditioning circuit, establishing the linear corresponding relation between the output signal and liquid depth to complete the measurement of the liquid depth. The product has advantages of high precision and small volume. Submerge it directly into liquid, the height between the end of the transmitter to the liquid surface is measured easily. The product is applicable to the measurement and control of the liquid level in the petroleum, chemical industry, power plant, urban water supply and hydrological exploration fields.

PCM268 has passed long-term aging and stability screening with stable and reliable performance and can be used in harsh outdoor environment. Meanwhile, it can display liquid level on site. Zero shift and full scale span shift available.

**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.

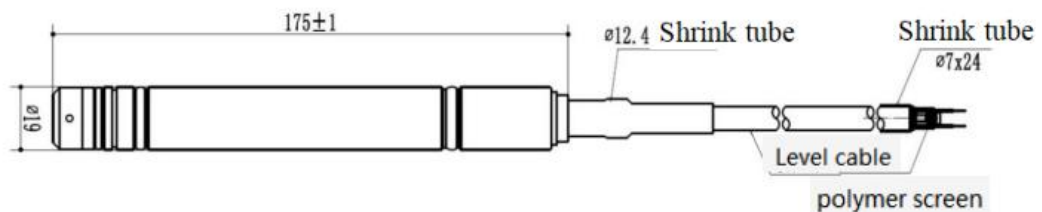
**Performance parameters**

Pressure range	1m~100m H <sub>2</sub> O
Supply & output	Supply:18-36V;Output:4-20mA
Operating temp.	-20°C~85°C
Medium temp.	-10°C~70°C
Storage temp.	-40°C~125°C
Compensated temp.	0m~10m H <sub>2</sub> O: 0°C~60°C 10m~100m H <sub>2</sub> O: -10°C~70°C
Zero temp. coefficient	±1.5%FS(within compensated temp.)
Span temp. coefficient	±1.5%FS(within compensated temp.)
Overload pressure	200%FS~300%FS
Mechanical vibration	20g(20~5000HZ)
Shock	100g/11ms
Accuracy	±0.5%FS
Insulation	100MΩ/250VDC
Response time	≤1ms(up to 90%FS)
Long term stability	±0.2%FS/year
Protection	IP68
Material	Stainless steel 316L Polyurethane wire and polyethylene wire for cable
Medium compatibility	All kinds of media compatible with stainless steel 304

**Electrical connection and wiring method**

J3: Cable outlet

Dimension  
In mm



Wiring method	Red: Supply+ Green: Current output
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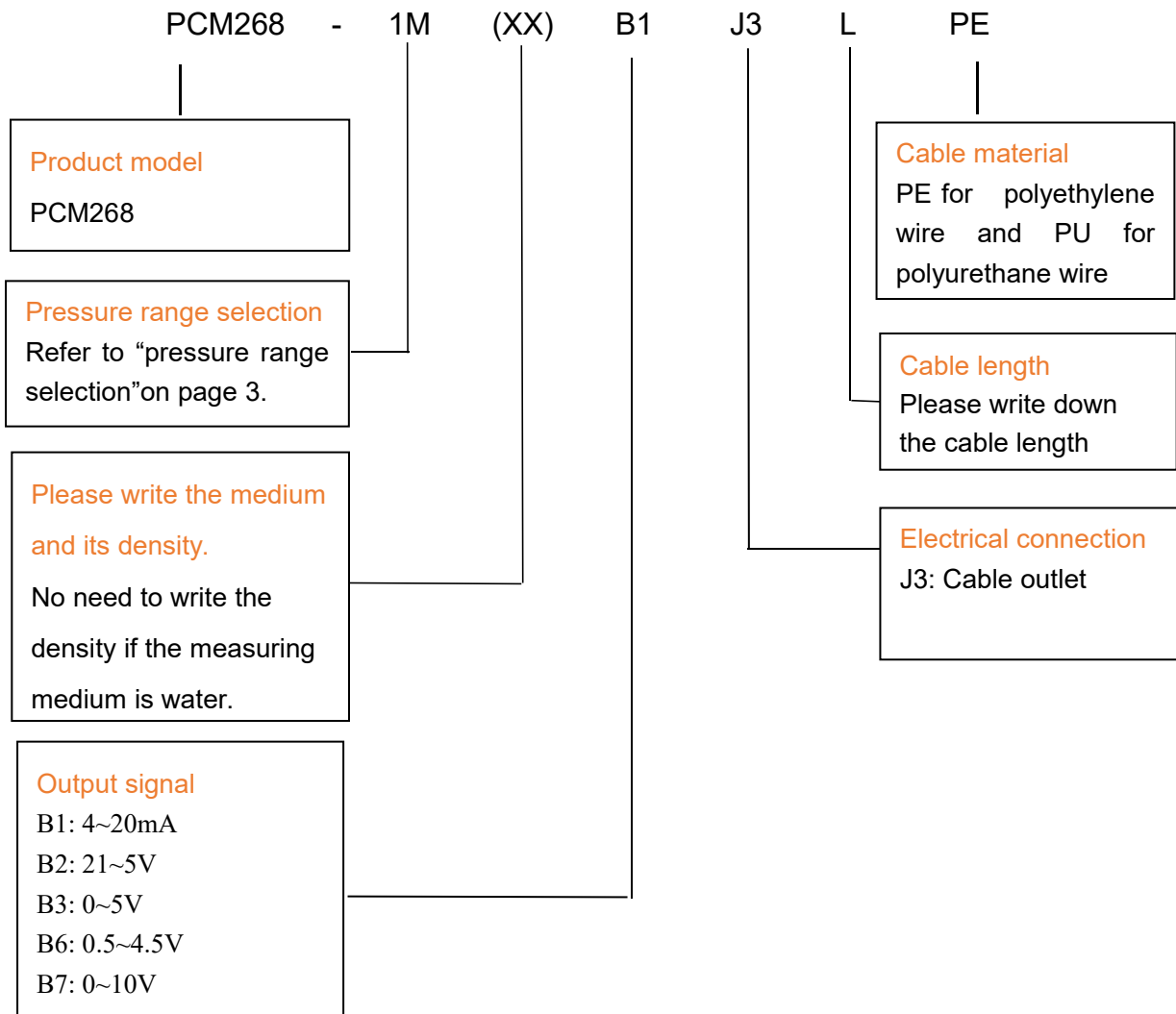
### Pressure range selection

Pressure Range code	Pressure reference	Pressure range	Overload pressure	Burst pressure	Remark
1M	G	1meter H2O	300%FS	600%FS	
2M	G	2meters H2O	300%FS	600%FS	
3M	G	3meters H2O	300%FS	600%FS	
5M	G	5meters H2O	300%FS	600%FS	
7M	G	7meters H2O	300%FS	600%FS	
8M	G	8meters H2O	300%FS	600%FS	
9M	G	9meters H2O	300%FS	600%FS	
10M	G	10meters H2O	300%FS	600%FS	
12M	G	12meters H2O	300%FS	600%FS	
15M	G	15meters H2O	300%FS	600%FS	
18M	G	18meters H2O	300%FS	600%FS	
20M	G	20meters H2O	300%FS	600%FS	
25M	G	25meters H2O	300%FS	600%FS	
40M	G	40meters H2O	300%FS	600%FS	
60M	G	60meters H2O	300%FS	600%FS	
80M	G	80meters H2O	300%FS	600%FS	
100M	G	100meters H2O	200%FS	500%FS	

### Cable length selection

Pressure range code	Standard cable length	Code	Definition
1m	L1L2 L3 L5 L7 L8 L9 L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L1	Cable length 1m
2m	L2 L3 L5 L7 L8 L9 L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L2	Cable length 2m
3m	L3 L5 L7 L8 L9 L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L3	Cable length 3m
5m	L5 L7 L8 L9 L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L5	Cable length 4m

7m	L7 L8 L9 L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L7	Cable length 5m
8m	L8 L9 L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L8	Cable length 6m
9m	L9 L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L9	Cable length 7m
10m	L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L10	Cable length 8m
12m	L12 L15 L18 L20 L25 L40 L60 L80 L100	L12	Cable length 12m
15m	L15 L18 L20 L25 L40 L60 L80 L100	L15	Cable length 15m
18m	L18 L20 L25 L40 L60 L80 L100	L18	Cable length 18m
20m	L20 L25 L40 L60 L80 L100	L20	Cable length 20m
25m	L25 L40 L60 L80 L100	L25	Cable length 25m
40m	L40 L60 L80 L100	L40	Cable length 40m
60m	L60 L80 L100	L60	Cable length 60m
80m	L80 L100	L80	Cable length 80m
100m	L100	L100	Cable length 100m



**Example:** PCM268-1MB1J3L1PE

PCM268: product model. 1M: pressure range 1meter H2O. B1: output signal 4-20mA. J3: electrical connection cable outlet. L: cable length. PE:cable material.

**Optional accessories**

The length of the cable beyond the standard cable length.

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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