

# PCM268 Small-Diameter Level Transmitter

## Features

- Diffusion silicon piezoresistive pressure sensor
- Immersion probe measurement, easy to install
- For level measurement
- Multi-protective structure design, high protection ability
- Fully welded structure, good sealing performance
- Full temperature range digital compensation, good stability
- 19mm diameter, easy to install and use

## Applications

- Static pressure level, liquid irrigation, sewage, industrial water, pool, well, river, seawater, 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

The PCM268 Small-Diameter Level Transmitter adopts the high-performance diffusion silicon piezoresistive pressure sensor as the measuring element, and accurately measures static pressure of the liquid proportional to the level depth; the result is converted to the standard signal (current or voltage signal) through the signal conditioning circuit, establishing the linear corresponding relation between the output signal and liquid depth to realize the measurement for the liquid depth. PCM268 has the advantages of high precision and small volume. By submerging it directly into liquid, the height from the end of the transmitter to the liquid surface can be measured easily. The product is applicable to the level measurement and control in the petroleum, chemical, power plant, urban water supply, and hydrological exploration fields.

This product, with stable and reliable performance, has passed long-term aging and stability screening and can be used in harsh outdoor environments. Meanwhile, on-site liquid level display and zero and span migration are available.

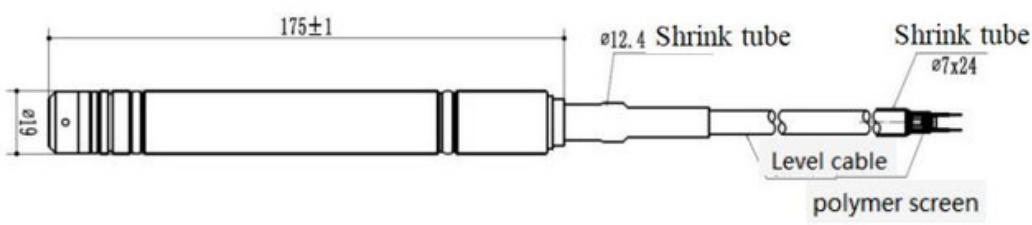
### Notes:

- 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 signal	Supply: 18~36V; Output signal: 4~20mA
Operating temp.	-20℃~85℃
Medium temp.	-10℃~70℃
Storage temp.	-40℃~125℃
Compensated temp.	0m~10m H <sub>2</sub> O: 0℃~60℃ 10m~100m H <sub>2</sub> O: -10℃~70℃
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	All stainless steel Polyurethane wires or polyethylene wires for cable
Medium compatibility	All kinds of media compatible with stainless steel 304

**Electrical connection and wiring method**

<b>J3: Cable outlet</b>	
Dimension Inmm	
Wiring method	Red: Supply+ Green: Current output

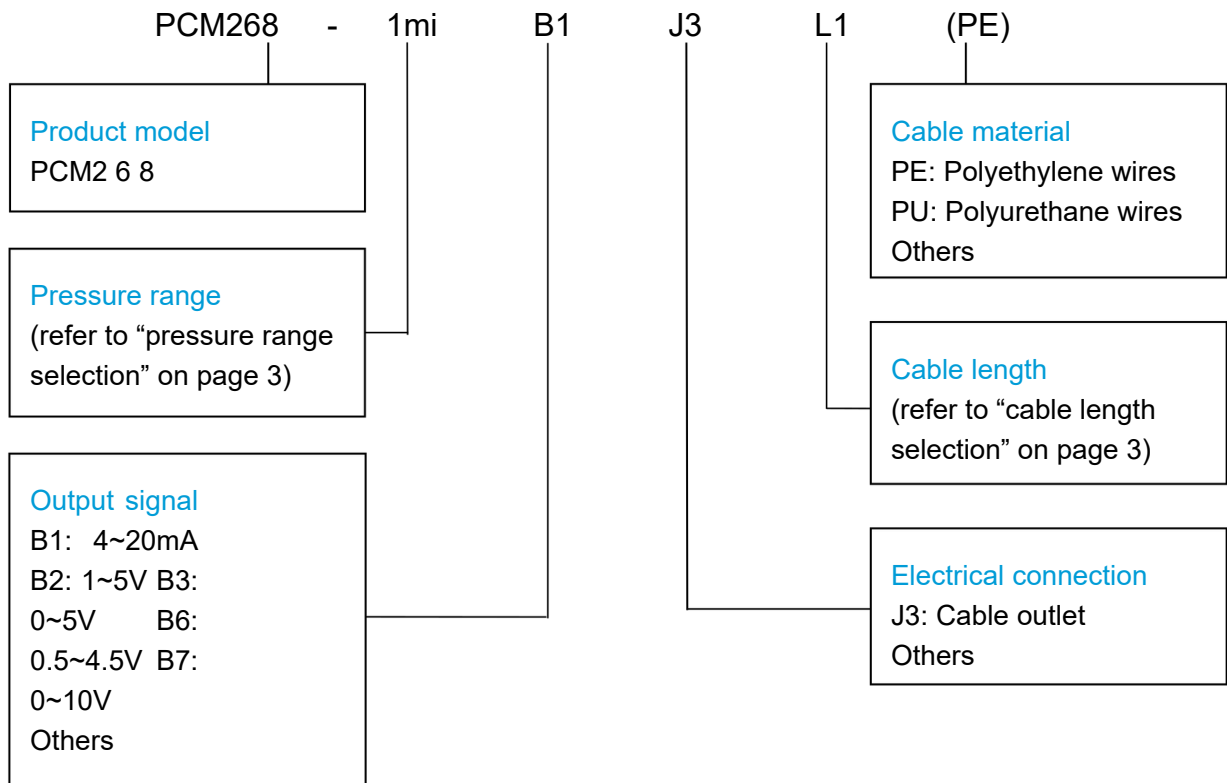
### Pressure range selection

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

### Cable length selection

Range code	Standard cable length	Code	Definition
1mi	L1 L2 L3 L5 L7 L8 L9 L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L1	Cable length 1m
2mi	L2 L3 L5 L7 L8 L9 L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L2	Cable length 2m
3mi	L3 L5 L7 L8 L9 L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L3	Cable length 3m
5mi	L5 L7 L8 L9 L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L5	Cable length 5m
7mi	L7 L8 L9 L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L7	Cable length 7m
8mi	L8 L9 L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L8	Cable length 8m
9mi	L9 L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L9	Cable length 9m
10mi	L10 L12 L15 L18 L20 L25 L40 L60 L80 L100	L10	Cable length 10m
12mi	L12 L15 L18 L20 L25 L40 L60 L80 L100	L12	Cable length 12m
15mi	L15 L18 L20 L25 L40 L60 L80 L100	L15	Cable length 15m
18mi	L18 L20 L25 L40 L60 L80 L100	L18	Cable length 18m
20mi	L20 L25 L40 L60 L80 L100	L20	Cable length 20m
25mi	L25 L40 L60 L80 L100	L25	Cable length 25m
40mi	L40 L60 L80 L100	L40	Cable length 40m
60mi	L60 L80 L100	L60	Cable length 60m
80mi	L80 L100	L80	Cable length 80m
100mi	L100	L100	Cable length 100m

**How to order**



**Example:** PCM268-1miB1J3L1PE

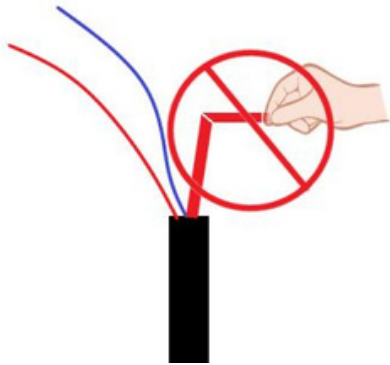
Product model: PCM268, pressure range 1meter H2O, output signal 4~20mA, electrical connection: cable outlet, 1m PE cable.

**Optional accessories**

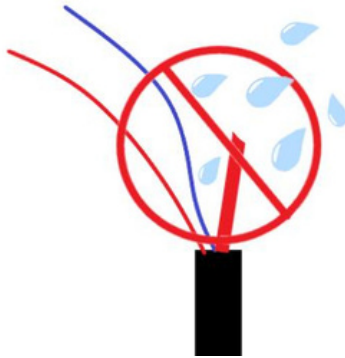
The part of the cable exceeding the standard cable length.

## Notes

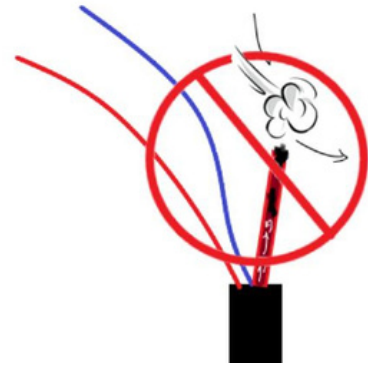
The air duct of the liquid level transmitter needs to remain open to the atmosphere. During operation, ensure that the duct is not blocked or bent. Additionally, proper waterproof and dustproof measures should be applied to the air duct; otherwise, it may impair transmitter performance and cause damage to the device.



Do Not Bend



Do Not Expose to Rain or Water



No Dust Blockage

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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