

# PCM269 Submersible Level Transmitter

## Features

- Diffused silicon piezoresistive sensor
- Probe drop measurement mode easy to install
- Available for liquid level measurement
- Multiple protective structure design, high protective ability
- All welded structure, good sealing performance
- Full temperature range digital Compensation
- 15.8 diameter, easy to install and use

## Applications

- Hydrostatic level gauge, chemical grouting, waster water, industrial water, pool, well, river, sea, lake

### 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.



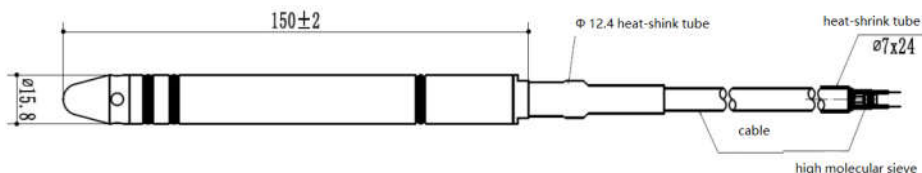
## Product overview

PCM269 Submersible Level Transmitter is made of high-performance diffused silicon piezoresistive pressure sensor as the measuring element to accurately measure the hydrostatic pressure proportional to the depth of the liquid level. The signal conditioning circuit converted into a standard (current or voltage) signal output, establish a linear correspondence between the output signal and the liquid depth, to achieve the measurement of liquid depth. High precision, small volume, directly into the liquid, the liquid height from transmitter end to liquid surface could be measured at once, easy to use. It is suitable for liquid level measurement and control in petroleum, chemical industry, power plant, urban water supply and hydrologic exploration. After long-term aging and stability screening, the product performance is stable and reliable, and can be used in the harsh environment of the open field.

### 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	2m~100m H <sub>2</sub> O
Power supply output	4~20mA (18~36V)
Operating temperature	-20℃~85℃
Medium temperature	-10℃~70℃
Storage temperature	-40℃~125℃
Compensated temperature	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
Vibration resistance	20g (20~5000HZ)
Shock	100g/11ms
Overall accuracy	0.5%FS
Insulation resistance	100MΩ/250VDC
Response time	≤1ms (up to 90%FS)
Long-term stability	±0.2%FS/Year
Protective level	IP68
Material	316L
	Cable material: Polyurethane or Polyethylene
Medium compatibility	All medium compatible with stainless steel 316L

Structure and pressure connection	
	J3: cable outlet
Dimension In mm	
Pressure connection	Red wire    excitation+ Green wire    output+

## Pressure range selection

Pressure range code	Pressure reference	Pressure range	Overload pressure	Burst pressure	Remark
2M	G	2 meters H <sub>2</sub> O	300%FS	600%FS	
3M	G	3 meters H <sub>2</sub> O	300%FS	600%FS	
5M	G	5 meters H <sub>2</sub> O	300%FS	600%FS	
7M	G	7 meters H <sub>2</sub> O	300%FS	600%FS	
8M	G	8 meters H <sub>2</sub> O	300%FS	600%FS	
9M	G	9 meters H <sub>2</sub> O	300%FS	600%FS	
10M	G	10 meters H <sub>2</sub> O	300%FS	600%FS	
12M	G	12 meters H <sub>2</sub> O	300%FS	600%FS	
15M	G	15 meters H <sub>2</sub> O	300%FS	600%FS	
18M	G	18 meters H <sub>2</sub> O	300%FS	600%FS	
20M	G	20 meters H <sub>2</sub> O	300%FS	600%FS	
25M	G	25 meters H <sub>2</sub> O	300%FS	600%FS	
40M	G	40 meters H <sub>2</sub> O	300%FS	600%FS	
60M	G	60 meters H <sub>2</sub> O	300%FS	600%FS	
80M	G	80 meters H <sub>2</sub> O	300%FS	600%FS	
100M	G	100 meters H <sub>2</sub> O	200%FS	500%FS	

## How to order

PCM269- 2M (XX) B1 J3 L (PE)

**Product model**  
PCM269

**Pressure range**  
Refer to "Pressure range"  
on page 3

**Please write the medium  
and its density ?**  
No need to write the  
density if the measuring  
medium is water.

**Cable material**  
PE  
PUR

**Please write the cable  
length**  
Cable XX meters

**Electrical connection**  
J3: cable outlet

**Output signal**  
B1: 4~20mA  
B2: 1~5V  
B3: 0~5V  
B6: 0.5~4.5V  
B7: 0~10V



**Example:** PCM269-2M (water)B1J3L18PE

The model is PCM 269. 2M: pressure range 2 meters, (medium water): 1, B1:output signal 4~20mA, J3: cable outlet, L18: the cable length 18 meters, PE: cable material PE

#### **Ordering tips:**

1. Ensure compatibility between measured medium and contacting part of product.
2. Customization is available for special requirements on the appearance and performance parameters of the product.

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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