

PCM265 Submersible Lightning Protection Level Transmitter

Features

- High performance diffused silicon sensor
- With waterproof sealing rubber ring
- With lightning protection module
- With the anti-condensation macromolecule sieve
- Anti-electromagnetic and anti-RF interference
- Multiple protection structure design, strong protection ability
- Excellent long term stability

Applications

- Level detection in areas with severe weather and thunder, such as oceans, rivers and lakes, ships...

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

PCM265 submersible lightning protection level transmitter encapsulates OEM oil-filled sensor in stainless steel shell, and has three-stage lightning protection module installed inside, which can effectively prevent the damage of induced lightning strike. The front protective cap protects the sensor diaphragm, and can also make the liquid contact with the diaphragm smoothly. The waterproof wire is sealed with the shell. The ventilated tube is connected with the outside in the cable, and the internal structure is designed to prevent condensation.

After long-term aging test, the product has stable and reliable performance, and is widely used in marine, river and other water conservancy and hydrological detection.

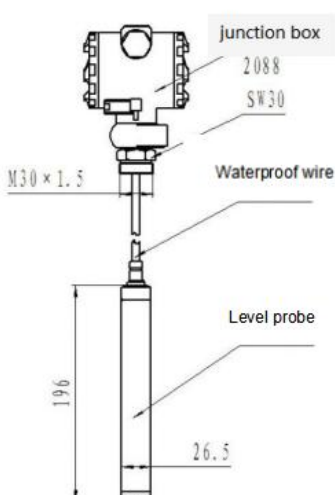
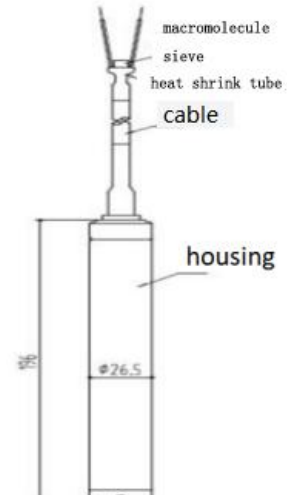
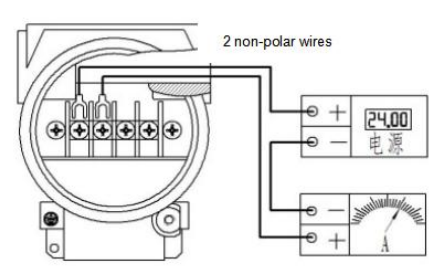
Notes:

- 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.

Performance parameters

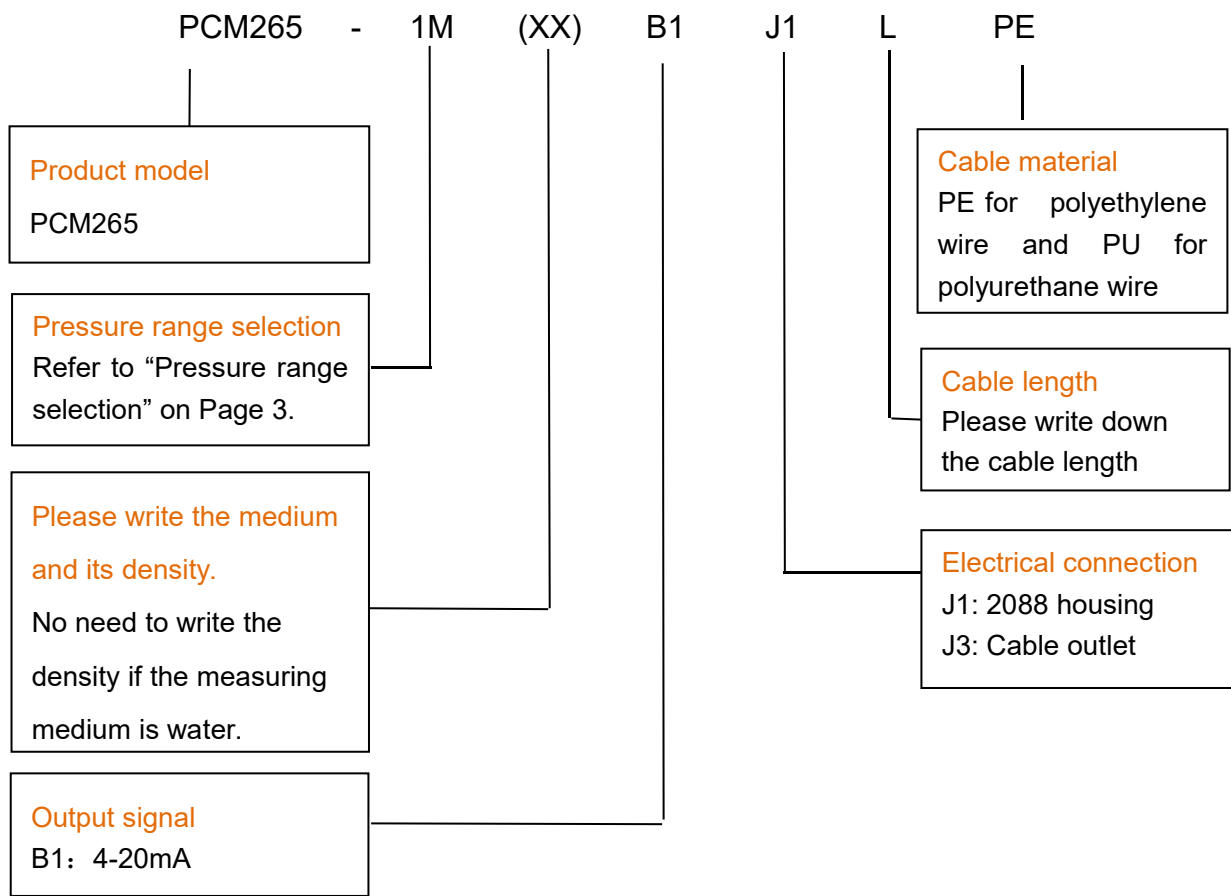
Pressure range	0m~1m...20m H ₂ O
Supply & output	Supply: 18-36V; Output: 4-20mA
Operating temp.	-20℃~85℃
Medium temp.	-20℃~85℃
Storage temp.	-40℃~125℃
Compensated temp.	0m~10m H ₂ O: 0℃~60℃ 10m~20m H ₂ O: -10℃~70℃
Zero temp. coefficient	±2%FS (within compensated temp.)
Sensitivity temp. coefficient	±2%FS (within compensated temp.)
Overpressure	150%FS
Mechanical vibration	20g (20~5000HZ)
Shock	100g (11ms)
Overall accuracy	±0.5%FS
Insulation	45MΩ/50VDC
Response time	≤1ms (up to 90%FS)
Long term stability	±0.2%FS/year
Protection	IP68
Material	Junction box: low copper aluminum alloy; level probe: all stainless steel Cable material: polyurethane wire and polyethylene wire
Medium compatibility	All kinds of materials compatible with the stainless steel

Electrical connection and wiring method

	J1: 2088 housing	J3: Cable outlet
Dimension In mm		
Wiring method		<p>Red: Supply+</p> <p>Green: Current output</p>

Pressure range selection

Code	Pressure reference	Pressure range	Overpressure	Burst pressure	Remark
0.5M	G	0.5meters H2O	300%FS	600%FS	
1M	G	1meters H2O	300%FS	600%FS	
1.5M	G	1.5meters H2O	300%FS	600%FS	
2M	G	2meters H2O	300%FS	600%FS	
2.5M	G	2.5meters H2O	300%FS	600%FS	
3M	G	3meters H2O	300%FS	600%FS	
3.5M	G	3.5meters H2O	300%FS	600%FS	
4M	G	4meters H2O	300%FS	600%FS	
4.5M	G	4.5meters H2O	300%FS	600%FS	
5M	G	5meters H2O	300%FS	600%FS	
5.5M	G	5.5meters H2O	300%FS	600%FS	
6M	G	6meters H2O	300%FS	600%FS	
6.5M	G	6.5meters 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	200%FS	500%FS	
12M	G	12meters H2O	200%FS	500%FS	
15M	G	15meters H2O	200%FS	500%FS	
18M	G	18meters H2O	200%FS	500%FS	
20M	G	20meters H2O	200%FS	500%FS	



Example: PCM265-1MB1J1L1

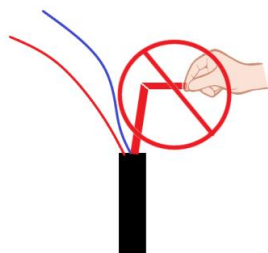
PCM265: product model. 1M: pressure range 1meters H2O. B1: output signal 4-20mA. J1: electrical connection 2088 housing. L: cable length.

Optional accessories

The length of the cable beyond the standard cable length.

Precautions

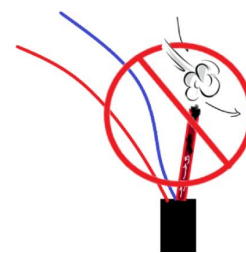
When the level transmitter is used, the gas-guide tube needs to be connected with the atmosphere; during the usage, please pay attention not to block or bend the gas-guide tube. The gas-guide tube place needs good waterproof and dustproof treatment, otherwise the normal usage of the transmitter may be affected or the transmitter may be destroyed.



No bending



No rain or soaking



No dust clogging



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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