

PCM261 Metal Armored Level Transmitter

Features

- Diffuse piezoresistive silicon sensor adopted
- Probe insertion measurement mode, simple and convenient installation
- Customized flange
- All-metal armored, high strength steel pipe structure
- Multiple protection structure design, high protection ability
- LCD option
- Corrosion resistant stainless steel material adopted, applicable to various industry fields

Applications and industries

- Hydrostatic liquid level, liquid irrigation, sewage, industrial water, pools, wells, rivers, seawater, lakes, 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

PCM261 Metal Armored Level Transmitter adopts the high performance diffuse piezoresistive silicon pressure sensor as the measuring element, and accurately measures static pressure of the liquid proportional to the level depth; 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 realize the measurement for the liquid depth. The flange can be customized and the cable is packaged in the armored stainless steel pipe. The material is reliable. The product is applicable to the measurement and control for the liquid level in the petroleum, chemical industry, power plant, urban water supply and detection hydro-geology fields.

The product has passed long-term aging and stability screening with stable performance and reliable sealing, and can be used in harsh outdoor environment, and meanwhile ensures the field level display, with zero and full span transferable.

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.

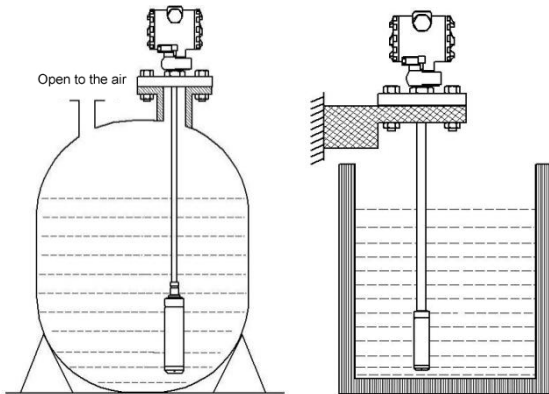
Performance parameters

Pressure range	0m~1m...10m H ₂ O
Supply & output	4~20mA (18~36V)
	4~20mA with display (12~36V)
Operating temp.	0°C~85°C
Medium temp.	-20°C~85°C
Storage temp.	-40°C~125°C
Compensated temp.	0°C~60°C
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	200MΩ/250VDC
Response time	≤1ms (Up to 90%FS)
Long-term stability	±0.2%FS/Year
Protection grade	IP68
Material	Low copper aluminum alloy for the junction box; all stainless steel for the level probe
Medium compatibility	All kinds of media compatible with the stainless steel

Appearance structure and wiring method

	J1: 2088 housing (Straight metal pipe type)	J1X: 2088 with display (Metal hose type)
Structure Dimension In mm		
Wiring method		

Installation instruction (for reference only)



Installation suggestion:

1. When the measured medium level is greater than 1.5 meters, it is not recommended to use a $\phi 16$ straight stainless steel pipe, but a $\phi 8$ flexible stainless steel hose.

Pressure range selection

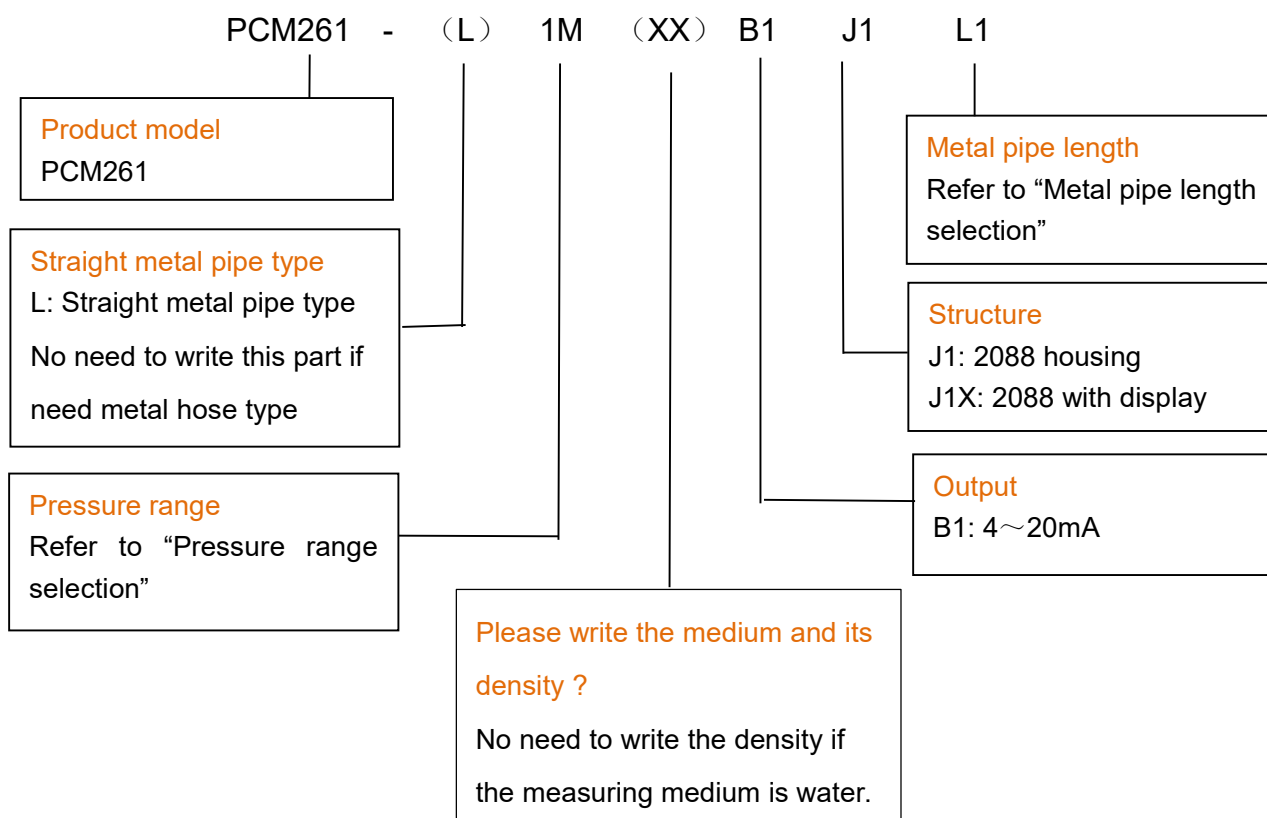
Pressure range code	Pressure reference	Pressure range	Overload pressure	Burst pressure	Note
1M	G	1 meter H ₂ O	300%FS	600%FS	
1.5M	G	1.5 meters H ₂ O	300%FS	600%FS	
2M	G	2 meters H ₂ O	300%FS	600%FS	
3M	G	3 meters H ₂ O	300%FS	600%FS	
4M	G	4 meters H ₂ O	300%FS	600%FS	
5M	G	5 meters H ₂ O	300%FS	600%FS	
6M	G	6 meters H ₂ O	300%FS	600%FS	
7M	G	7 meters H ₂ O	300%FS	600%FS	
8M	G	8 meters H ₂ O	300%FS	600%FS	
9M	G	9 meters H ₂ O	300%FS	600%FS	
10M	G	10 meters H ₂ O	200%FS	500%FS	

Note: the max pressure range of straight metal pipe is 1 meter. the max pressure range of metal hose is from 1 meter to 10 meters.

The length of straight metal pipe

Range code	Matching relation	Code	Definition/ Meter
1M	L1	L1	Insertion length 1M
1.5M	L1.5	L1.5	Insertion length 1.5M
2M	L2	L2	Insertion length 2M
3M	L3	L3	Insertion length 3M
4M	L4	L4	Insertion length 4M
5M	L5	L5	Insertion length 5M

Note: The straight metal pipe length is 1 meter. The metal hose length is from 1 meter to 5 meters.



Example: PCM261-L-1MB1J1L1

The product mode is PCM261, L: Straight metal pipe type (No need to write this part if need metal hose type), 1M: pressure range 1 meter, (medium water): 1, B1: output 4~20mA, J1: 2088 housing, L1: the metal pipe length 1 meter.

Order tips

When the measured medium level is greater than 1.5 meters, it is not recommended to use a φ16 straight stainless steel pipe, but a φ8 flexible stainless steel hose. The metal pipe length is equal to the level range by default; if other metal pipe lengths are needed, please contact our technician.

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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