

PCM262 Gas Collection Barrel Submersible Level Transmitter

Features

- Gas collection barrel type level probe
- Diffusion silicon piezoresistive sensor
- Immersion probe measurement, easy to install
- Measuring high-temperature media
- All-metal armoring and high-strength steel pipe structure
- Multi-protective structure design, high protection ability
- LED option
- Anti-corrosion stainless steel material, suitable for many occasions

Applications

- Static pressure level, liquid tanks, sewage, industrial water, pools, wells, rivers, seawater, and 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

The PCM262 gas collection barrel submersible level transmitter consists of a stainless steel gas collection barrel, a stainless steel capillary, and the 2088 junction box. The sensor and signal processing circuit are designed in the junction box, and the collection barrel should be put into the tested liquid to collect pressure signals. These level pressure signals are transmitted to the sensor through the stainless steel capillary, thus avoiding direct contact between the sensor and the measured medium. The product is suitable for high-temperature and corrosive environments, effectively solving the challenges of liquid level measurement for high-temperature corrosive liquids and sewage.

PCM262 is widely used for level measurement and control in environmental protection, water conservancy, variable frequency water supply, industrial process control, chemical industry, and many other fields. When measuring the medium, such as sewage or silt, a filtrating screen cover can be installed based on customers' requirements.

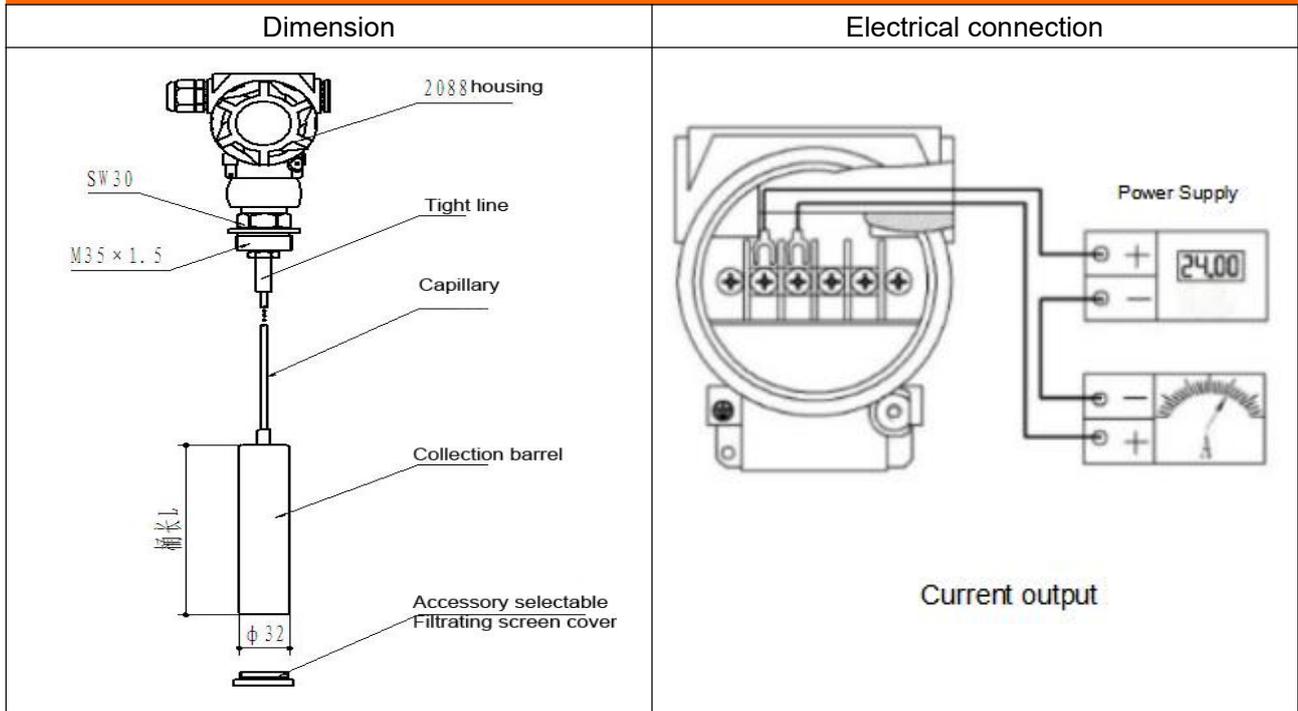
Notes:

- 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.

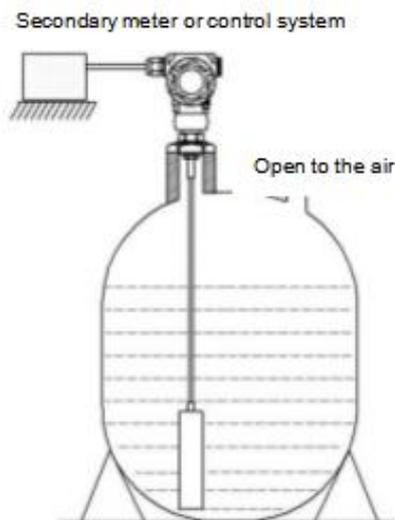
Performance parameters

Pressure range	0m~1m...20m H ₂ O
Supply & output signal	4~20mA (18~36V)
	4~20mA with display (12~36V)
Operating temp.	-20℃~85℃
Medium temp.	-20℃~100℃
Storage temp.	-40℃~125℃
Zero temp. coefficient	Range>35kPa, ±1.5%FS (@-10~70℃)
	Range≤35kPa, ±3%FS (@0~60℃)
Span temp. coefficient	Range>35kPa, ±1.5%FS (@-10~70℃)
	Range≤35kPa, ±3%FS (@0~60℃)
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	Low copper aluminum alloy for junction box; all stainless steel for level probe
	All stainless steel for capillary
Medium compatibility	All kinds of media compatible with stainless steel 304

Dimension and electrical connection In mm



Installation instructions (for reference only)



Installation tips:

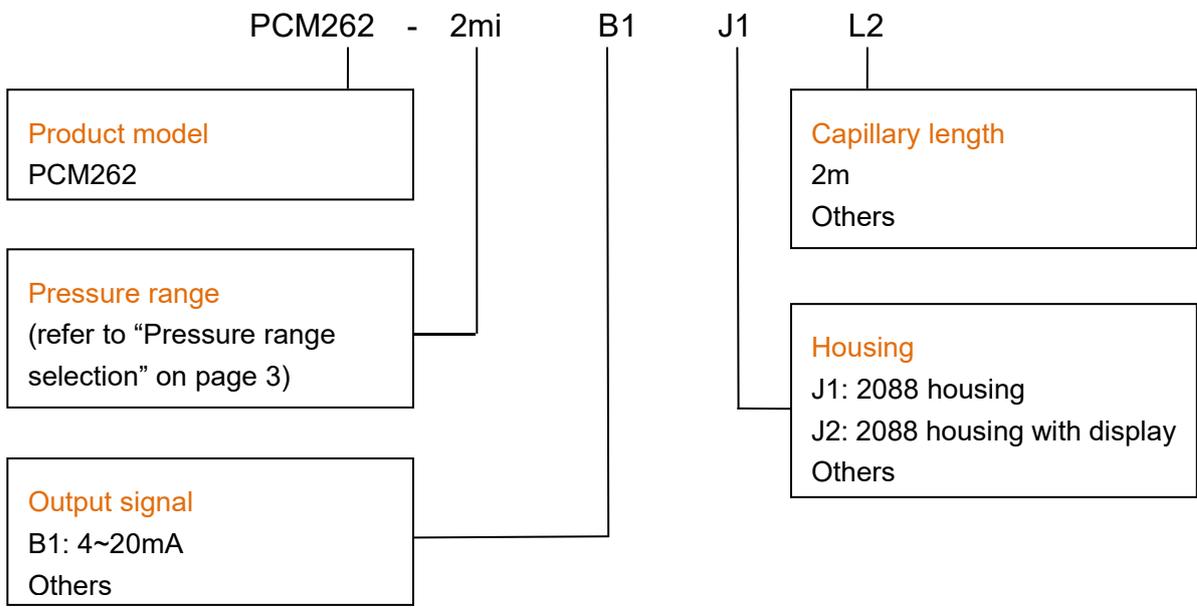
- 1 The probe should be placed vertically into the water, and the angle between it and the vertical line should not exceed 30°.
- 2 The capillary cannot be flooded. If water is found accumulated in the tube, please remove the probe for drainage.
- 3 The capillary is thin and cannot be bent repeatedly.
- 4 If there are many impurities in the measured medium, it is recommended to select the filtering screen cover.

Pressure range selection

Pressure range code	Pressure reference	Pressure range	Overload pressure	Burst pressure	Note
1mi	G	1m H ₂ O	300%FS	600%FS	
1.5mi	G	1.5m H ₂ O	300%FS	600%FS	
2mi	G	2m H ₂ O	300%FS	600%FS	
3mi	G	3m H ₂ O	300%FS	600%FS	
4mi	G	4m H ₂ O	300%FS	600%FS	
5mi	G	5m H ₂ O	300%FS	600%FS	
6mi	G	6m H ₂ O	300%FS	600%FS	
8mi	G	8m H ₂ O	300%FS	600%FS	
10mi	G	10m H ₂ O	200%FS	500%FS	
20mi	G	20m H ₂ O	200%FS	500%FS	

Cable length selection			
Range Code	Standard cable length	Code	Definition
1mi	L1 L1.5 L2 L3 L4 L5 L6 L8 L10	L1	Cable length 1m
1.5mi	L1.5 L2 L3 L4 L5 L6 L8 L10	L1.5	Cable length 1.5m
2mi	L2 L3 L4 L5 L6 L8 L10	L2	Cable length 2m
3mi	L3 L4 L5 L6 L8 L10	L3	Cable length 3m
4mi	L4 L5 L6 L8 L10	L4	Cable length 4m
5mi	L5 L6 L8 L10	L5	Cable length 5m
6mi	L6 L8 L10	L6	Cable length 6m
8mi	L8 L10	L8	Cable length 8m
10mi	L10	L10	Cable length 10m
20mi	L20	L20	Cable length 20m

How to order



Example: PCM262-2miB1J1L2

Refer to product model PCM262, pressure range: 2mH₂O, output signal: 4~20mA, 2088 housing, capillary length 2m.

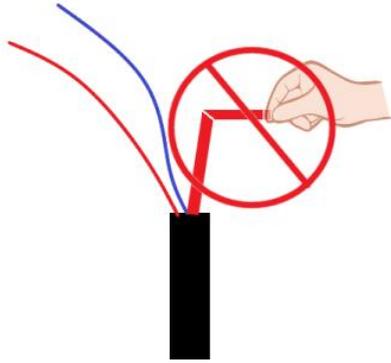
Please be noted that the standard capillary length is equal to pressure range. If longer capillary is needed, please contact us.

Accessories

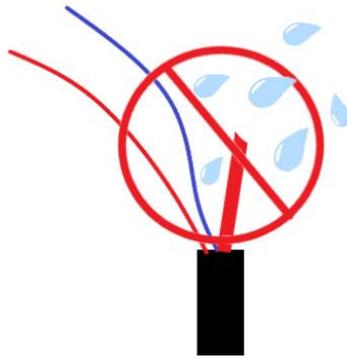
PCM262 anti-blocking protective cover (including filter screen cover).

Notes

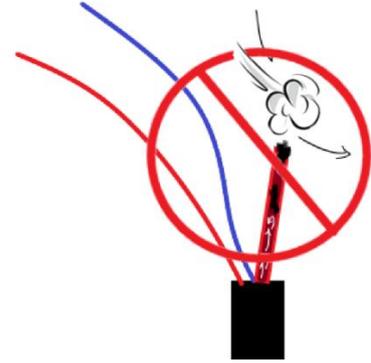
The air duct of the liquid level transmitter needs to remain open to the atmosphere. During operation, ensure that the duct is not blocked or bent. Additionally, proper waterproof and dustproof measures should be applied to the air duct; otherwise, it may impair transmitter performance and cause damage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