

PCM260H Level Transmitter

Features

- Diffuse piezoresistive silicon sensor adopted
- Probe insertion measurement mode, simple and convenient installation
- For level measurement
- High accuracy, all stainless steel structure
- Small size and light weight
- Strong anti-interference, good long-term stability
- Anti-vibration, shock resistance

Applications and industries

- Water level measurement in rivers and lakes
- Level measurement of containers and storage systems
- Sewage lift pump and pumping station control
- Sewage, sediment and flood drainage system monitoring

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

PCM260H 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 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 product has advantages of high precision and small volume. Submerge it directly into liquid, the height between the end of the transmitter to the liquid surface is measured easily. The product is applicable to the measurement and control for the liquid level in the petroleum, chemical industry, power plant, urban water supply and hydrological exploration fields.

The product has passed long-term aging and stability screening with stable and reliable performance, and can be used in harsh outdoor environment.

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	0~1mH ₂ O...20mH ₂ O
Pressure reference	Gauge pressure
Accuracy	±0.5%FS (@25°C)
Power supply	9~30V
Output	4~20mA
Temperature drift	35kPa: ±3%FS (@0~60°C) Other ranges: ±1.5%FS (@-10~70°C)
Power-on response time	≤100ms (Up to 90%FS)
Overload pressure	Refer to Table for Pressure Range Selection
Durability	≥10 ⁶ pressure cycles
Operating temp.	-20°C~70°C
Medium temp.	-10°C~70°C
Storage temp.	-40°C~70°C
EMC	EN61000-6-2, EN61000-4-3
Insulation resistance	≥100MΩ/250VDC
Vibration resistance	Sine curve: 20g, 25Hz~2kHz; IEC 60068-2-6 Random: 7.5g, 5Hz~1kHz; IEC 60068-2-64
Shock resistance	Shock: 200g/1ms; IEC 60068-2-27 Free falling body: 1m; IEC 60068-2-32
Protection grade	IP68
Surge	300V
Static electricity	IEC 61000-4-2 Grade 3
Medium compatibility	All kinds of media compatible with stainless steel 304 (Protective cap material: PC+ABS)

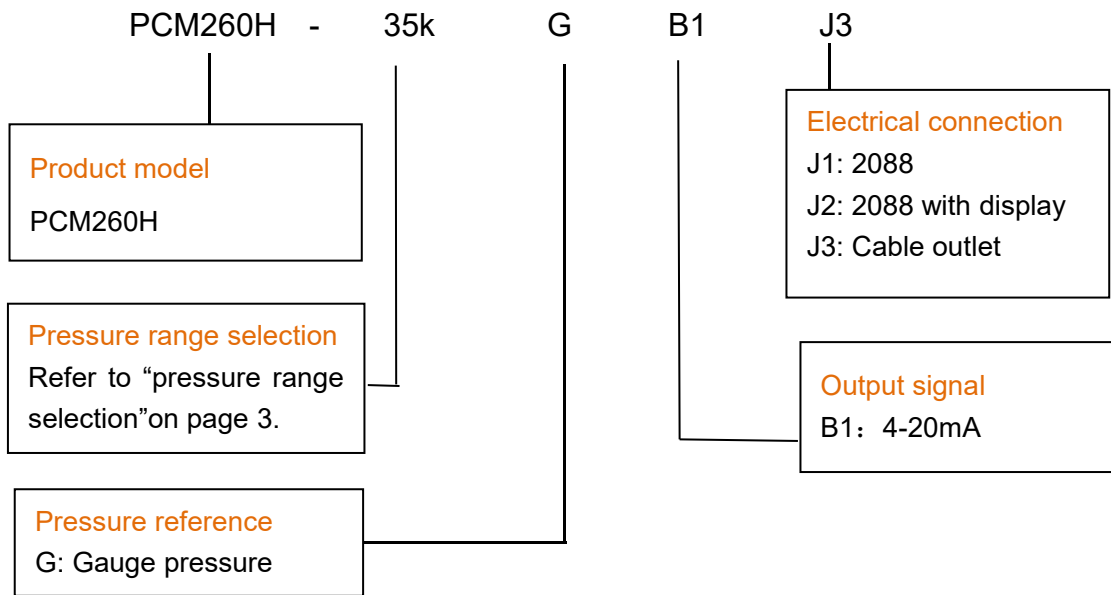
Electrical connection and wiring method

Code	J1: 2088 housing	J2: 2088 with display	J3: Cable outlet
Dimension In mm			
Wiring method			<p>Red: Vcc Blue/Yellow: Iout</p>

Pressure range selection

Sensor pressure range	Pressure range	Pressure range code	Overpressure	Burst pressure	Note
35kPa	1mH ₂ O < X ≤ 4mH ₂ O	35kG	300%FS	600%FS	
100kPa	4mH ₂ O < X ≤ 10mH ₂ O	100kG	200%FS	500%FS	
250kPa	10mH ₂ O < X ≤ 20mH ₂ O	250kG	200%FS	500%FS	

Note: G stands for gauge pressure
X stands for the pressure range needed



Example: PCM260H-35kGB1J3

Product model: PCM260H. 35k: pressure range 0~3mH₂O etc. G: gauge pressure. B1: output signal 4-20mA. J3: Electrical connection cable outlet.

Ordering tips

1. Please ensure the compatibility between the measured medium and the contacting part of the product when placing an order; the default material of the product is 304 (The protective cap material of level probe is PC+ABS).
2. The cable length isn't mentioned in the datasheet, but it will be indicated in our production sheet. There are two kinds of cable material: PUR and PVC. The wire diameter is 7.2±0.2mm. Special cable can be customized.
3. The sensor diaphragm should not be touched by foreign material. It is recommended to install a protective board inside the pressure port.
4. The default cable length of the product is 2 meters. If longer cable is needed, there will be extra charge.
5. **If the product needs to be used in the fields with frequent lightning, please choose lightning protection level transmitter.**
6. The air vent should be open to the atmosphere and there should be no water. Please make sure the outlet end is waterproof and moistureproof when using the product.
7. If the pressure range needed is larger than 20m, it can be customized.
8. If the level transmitter needed is made of 316L material, please choose PCM1260 level transmitter.

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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