

PCM260H Submersible Level Transmitter

Features

- Piezoresistive diffused silicon pressure sensor
- Probe insertion measurement method, easy to install
- For level measurement
- High precision, all stainless steel structure
- Small size, light weight
- Strong anti-interference, good long-term stability
- Vibration and shock resistance

Applications

- 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 Submersible Level Transmitter accurately measures static pressure of the liquid proportional to the level depth using high performance piezoresistive diffused silicon pressure sensor as the measuring element. 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 complete the measurement of 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 of the liquid level in the petroleum, chemical industry, power plant, urban water supply and hydrological exploration fields.

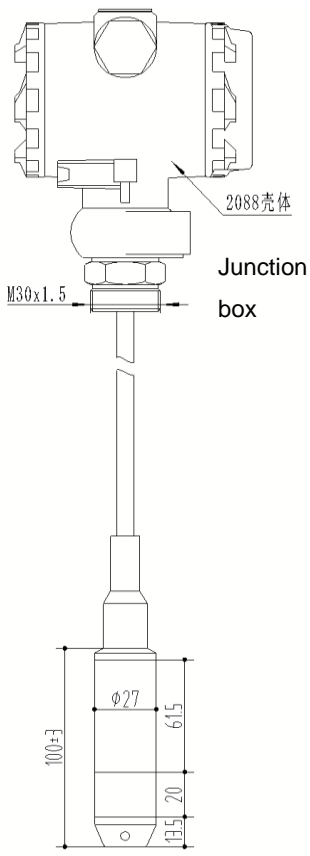
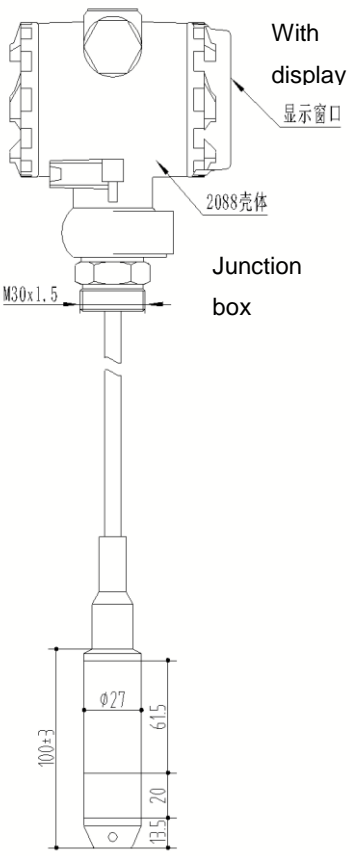
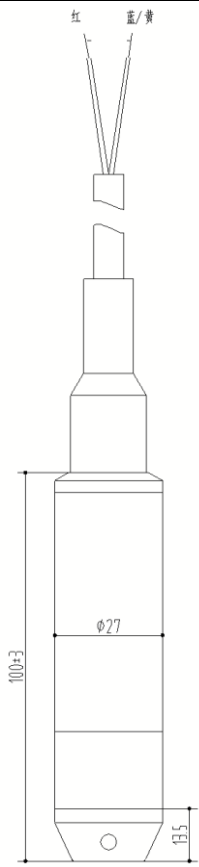
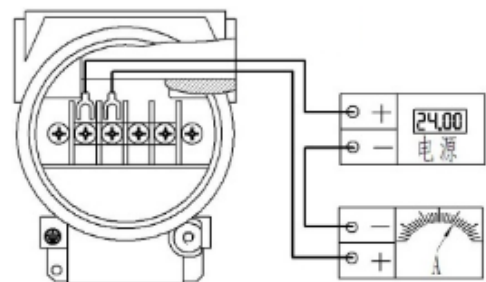
PCM260H has passed long-term aging and stability screening with stable and reliable performance and can be used in harsh outdoor environment.

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℃)
Supply	9~30V
Output	4~20mA
Temp. drift	35kPa: ±3%FS(@0~60℃) Others: ±1.5%FS(@-10~70℃)
Response time	≤100ms (Up to 90%FS)
Overpressure	Refer to "Pressure range selection"
Service life	≥10 ⁶ pressure cycles
Operating temp.	-20℃~70℃
Medium temp.	-10℃~70℃
Storage temp.	-40℃~70℃
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 fall: 1m; IEC 60068-2-32
Protection	IP68
Surge	300V
Static	IEC 61000-4-2 Level 3
Medium compatibility	All kinds of media compatible with stainless steel 304 (Protective cap material: PC+ABS)

Outline structure & Electrical connection

Code	J1: 2088 housing	J2: 2088 housing with display	J3: Cable outlet
Dimension In mm			
Wiring method	 <p>Current output</p>		<p>Red wire: Supply+</p> <p>Blue wire or yellow wire: Current output</p>

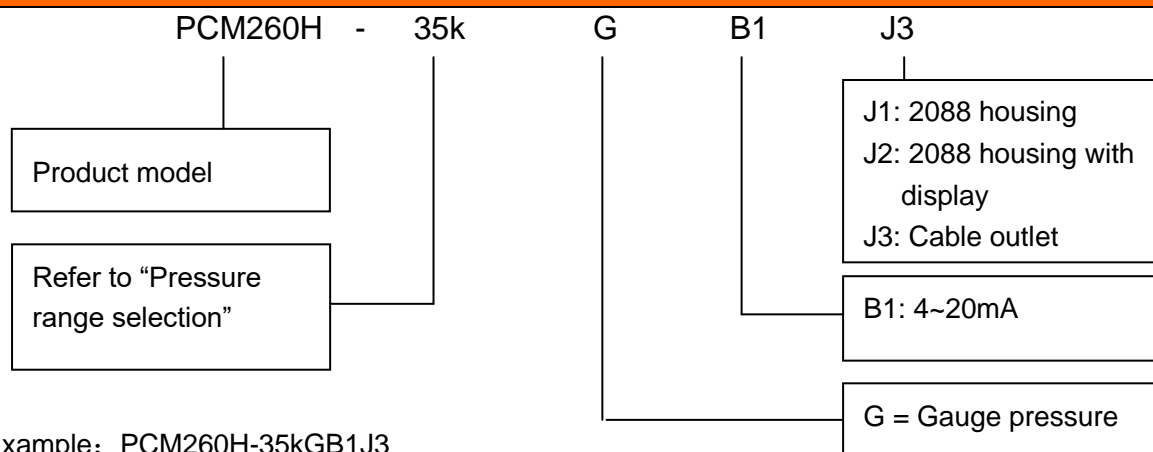
Pressure range selection

Sensor pressure range	Applicable pressure range	Pressure range code	Overpressure	Burst pressure	Remark
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

How to order



Example: PCM260H-35kGB1J3

Refer to product model PCM260H, with pressure range 0~3mH₂O, pressure reference gauge pressure, output signal 4~20mA, electrical connection cable outlet.

Ordering tips:

1. Please pay attention to the medium compatibility which has a direct contact with the product when selecting the type. The default material of the product is 304 (The protective cap material of level probe is PC+ABS).
2. Cable length isn't mentioned in the selection guide, but it will be indicated in 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 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 PCM260H is 2 meters. If longer cable is needed, there will be extra charge.
5. **If the product needs to be used in lightning prone area, please choose lightning protection submersible level transmitter.**
6. The air vent should be open to the atmosphere and there should be no water. Please make sure the outlet 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 submersible level transmitter needed is made of 316L, please choose PCM1260 submersible level transmitter.

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