

# PCM610 Differential Pressure Transmitter

## Features

- 316L stainless steel diaphragm structure
- Differential pressure measurement
- Easy to install
- Short-circuit protection and reverse polarity protection
- Excellent shock resistance, vibration resistance and electromagnetic compatibility resistance
- Customization available

## Applications

- Equipment support
- Scientific experiment
- Precision instrument
- Water supply and drainage
- Power plant differential pressure
- Flow

### Notes:

- 1 Do not touch the diaphragm with hard objects, which may cause damage to the diaphragm.
- 2 It is recommended to install three-valve manifold when using this product.
- 3 Please read the Instruction Manual of the product carefully before installation and check the relevant information of the product.
- 4 Strictly follow the wiring method for wiring; otherwise, it may cause product damage or other potential faults.



## Product overview

The PCM610 Differential Pressure Transmitter is assembled with the OEM oil-filling silicon piezoresistive differential pressure sensor. Its stainless-steel housing ensures excellent corrosion resistance. The two pressure ports are threaded and can be mounted directly on the measuring pipe or connected through the impulse pipe.

The PCM610 series offers standard voltage or current output options, which can be easily installed and used. The products are widely used in the measurement and control of differential pressure, liquid level, and flow in various fields, including process control, aviation, aerospace, automotive, medical equipment, and HVAC.

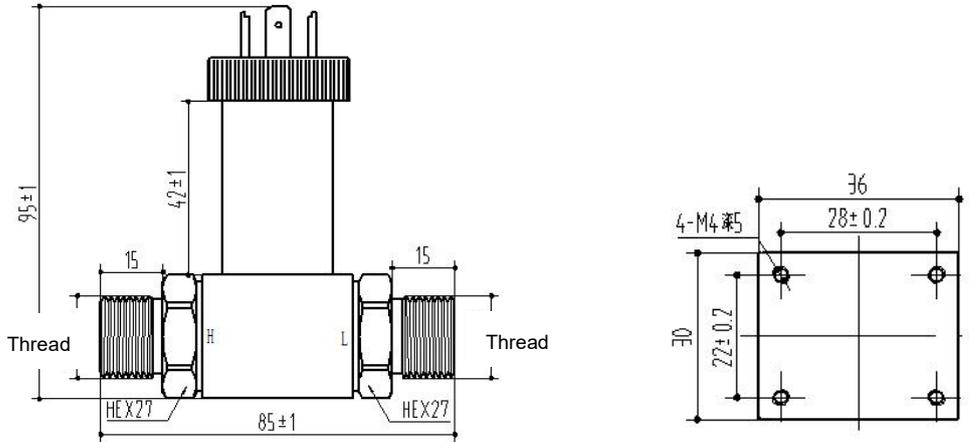
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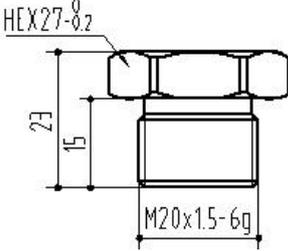
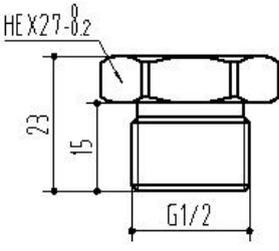
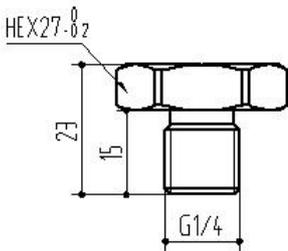
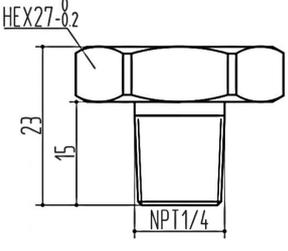
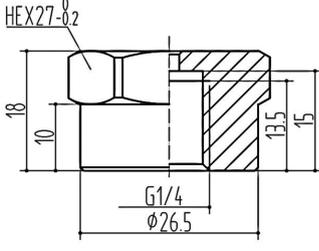
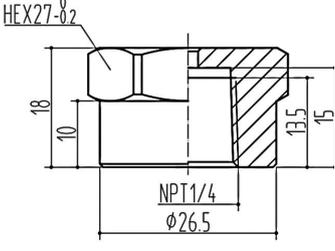
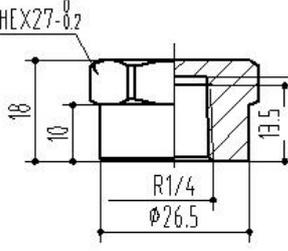
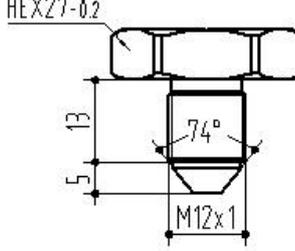
- 1 Do not misuse documentation.
- 2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- 3 Complete installation, operation, and maintenance information is provided in the instructions of the product.
- 4 Misuse of the product may cause danger or personal injury.

### Performance parameters

Pressure range	0~35kPa...2.5MPa
Static pressure	4MPa(Max.)
Pressure reference	Differential pressure
Supply & output signal	Supply: 16~36VDC; Output signal: 4~20mA Supply: 12~36VDC; Output signal: 1~5V, 0~5V
Accuracy	±0.5%FS (@25±5°C)
Temp. drift	±1.5%FS (@-10°C~70°C)
Response time	≤1ms(Up to 90%FS)
Durability	≥10 <sup>6</sup> pressure cycles
Ambient temp.	-10°C~70°C
Medium temp.	-10°C~70°C
Storage temp.	-40°C~125°C
EMC-interference	IEC 61000-6-3
EMC-immunity	IEC 61000-6-2
Insulation resistance	100MΩ/250VDC
Shock	10g/11ms; IEC 60068-2-27
Protection	IP65
Material	304

### Structure&Dimension

Dimension In mm	 <p style="text-align: center;">Structure &amp; dimension</p> <p style="text-align: center;">Bottom installation</p>
Wiring method (2-wire current)	<p style="text-align: center;">Pin 1: Supply+ (red) Pin 2: Current output (green)</p>
Wiring method (3-wire voltage)	<p style="text-align: center;">Pin 1: Supply+ (red) Pin 2: Ground (green) Pin 3: Voltage output (yellow)</p>

Pressure port			
Connector code	<b>C1: M20×1.5-6g</b>	<b>C2: G1/2</b>	<b>C3: G1/4</b>
Dimension In mm			
Recommended torque	15~25N·m	15~25N·m	15~25N·m
Connector code	<b>C5: NPT1/4, Z1/4</b>	<b>C3F: G1/4 (Female)</b>	<b>C5F: NPT1/4 (Female)</b>
Dimension In mm			
Recommended torque	15~25N·m	15~25N·m	15~25N·m
Connector code	<b>C6F: R1/4 (Female)</b>	<b>C35: M12×1</b>	
Dimension In mm			
Recommended torque	15~25N·m	15~25N·m	

Note: Torque depends on various factors, such as the material of the gasket, supporting materials, lubrication of the thread, and pressure.

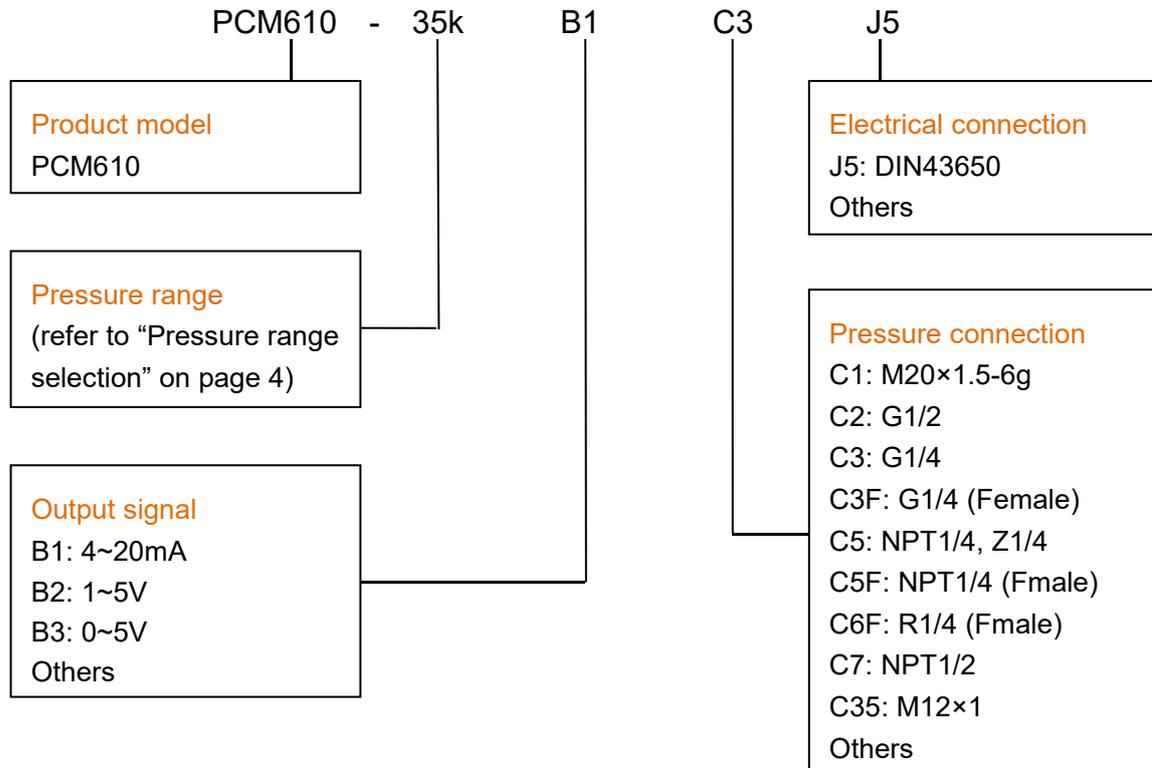
### Pressure range selection

Range code	Pressure range	Positive overpressure	Negative overpressure	Note
35k	0~35kPa	300%FS	300%FS	
70k	0~70kPa	300%FS	300%FS	
100k	0~100kPa	300%FS	300%FS	
250k	0~250kPa	200%FS	200%FS	
0.6M	0~0.6MPa	200%FS	200%FS	
1M	0~1MPa	200%FS	150%FS	
1.6M	0~1.6MPa	200%FS	150%FS	
2.5M	0~2.5MPa	200%FS	150%FS	

### Accessory

Name	Appearance	Description	Item number
Hirschmann plug		OMAL	100040301013
Hirschmann plug with wires		OMAL 1.5m	100040301018
LCD display gauge		1. LCD display 2. Green backlight	100040100008
Digital display gauge		1. LED display 2. Red backlight	100040101000

## How to order



### Example: PCM610-35k-B1-C3-J5

Product model PCM610, pressure range 0~35kPa, power supply 24V, output signal 4~20mA. Pressure connection G1/4, electrical connection DIN43650.

### Ordering tips

- 1 Ensure the measured medium is compatible with the contacting part of the product.
- 2 For special requirements on the appearance and performance parameters, customization is available.
- 3 If you need to customize products with special power supply and output signal parameters, please consult us.

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.

### Contact us

Nanjing Wotian Technology Co.,Ltd.

Website: [www.wtsensor.com](http://www.wtsensor.com)

Add: 5 Wenying Road, Binjiang Development Zone, Nanjing, 211161, China

E-Mail: [dr@wtsensor.com](mailto:dr@wtsensor.com)