

# PC610 Differential Pressure Sensor

## Features

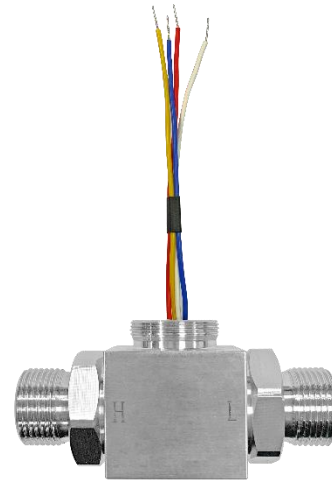
- 316L stainless steel isolation diaphragm structure
- Measurement of differential pressure values
- Easy to install
- Zero point and full range can be adjusted externally
- With short circuit protection and reverse polarity protection
- Anti-shock, anti-vibration and anti-electromagnetic compatibility
- Customized according to customer requirements

## Applications

- Equipment supporting
- Scientific experiment
- Precision instrument
- Water supply and drainage
- Differential pressure of power plant
- Flow measurement and control

### Notes:

- 1 Do not touch the diaphragm with hard objects, which may cause damage to the diaphragm.
- 2 It is recommended to install the 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

PC610 differential pressure transmitter is assembled by OEM piezoresistive silicon differential pressure sensor. The shell is of all stainless steel structure, which has strong corrosion resistance. The two pressure connections are threaded and can be mounted directly on the measuring pipe or connected via a pilot tube. PC610 can be easily installed and used, widely used in process control, aviation, aerospace, automobile, medical equipment, HVAC and other fields of differential pressure, liquid level, flow measurement and control

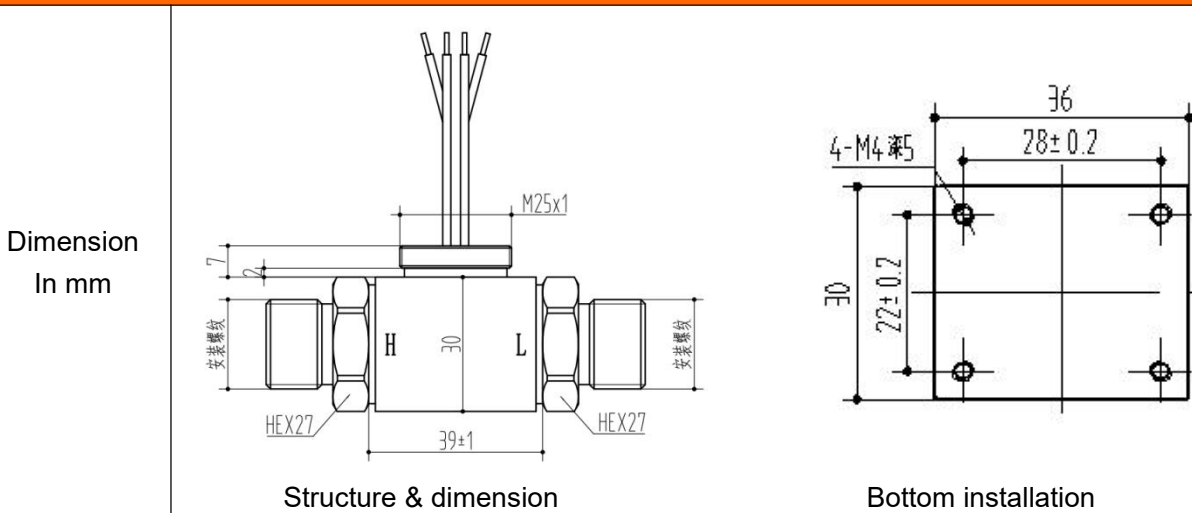
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### Performance parameters

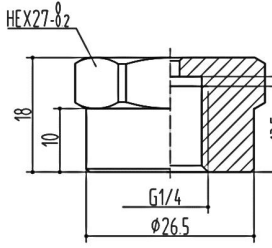
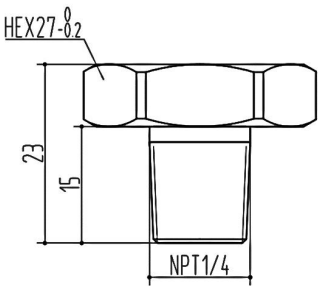
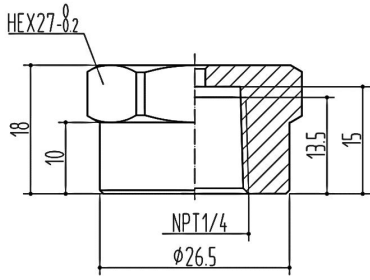
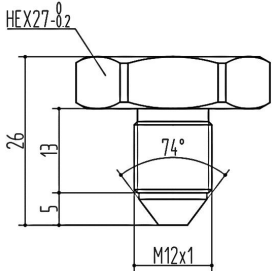
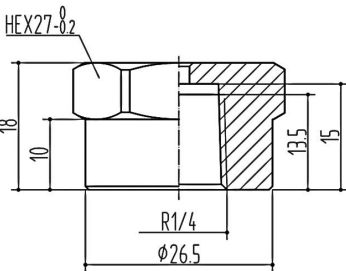
Pressure range	0~10kPa...2.5MPa
Static pressure	10MPa (max)
Pressure reference	Differential pressure
Excitation	1.5mA
Non-linearity	±0.2%FS (type)
Zero point temperature drift	±1.5%FS (@-10℃~70℃)
Sensitivity temperature drift	±1.5%FS (@-10℃~70℃)
Hysteresis	±0.03%FS (type)
Repeatability	±0.03%FS (type)
Ambient temp.	-10℃~70℃
Medium temp.	-10℃~70℃
Storage temp.	-40℃~125℃
Insulation	200MΩ/250VDC
Shock	10g/11ms
Max. mounting torque	25Nm
Material	304

### Appearance structure



### Pressure port

Code	C1: M20×1.5-6g	C2: G1/2	C3: G1/4
Dimension In mm			
Recommended torque	15~25Nm	15~25Nm	15~25Nm

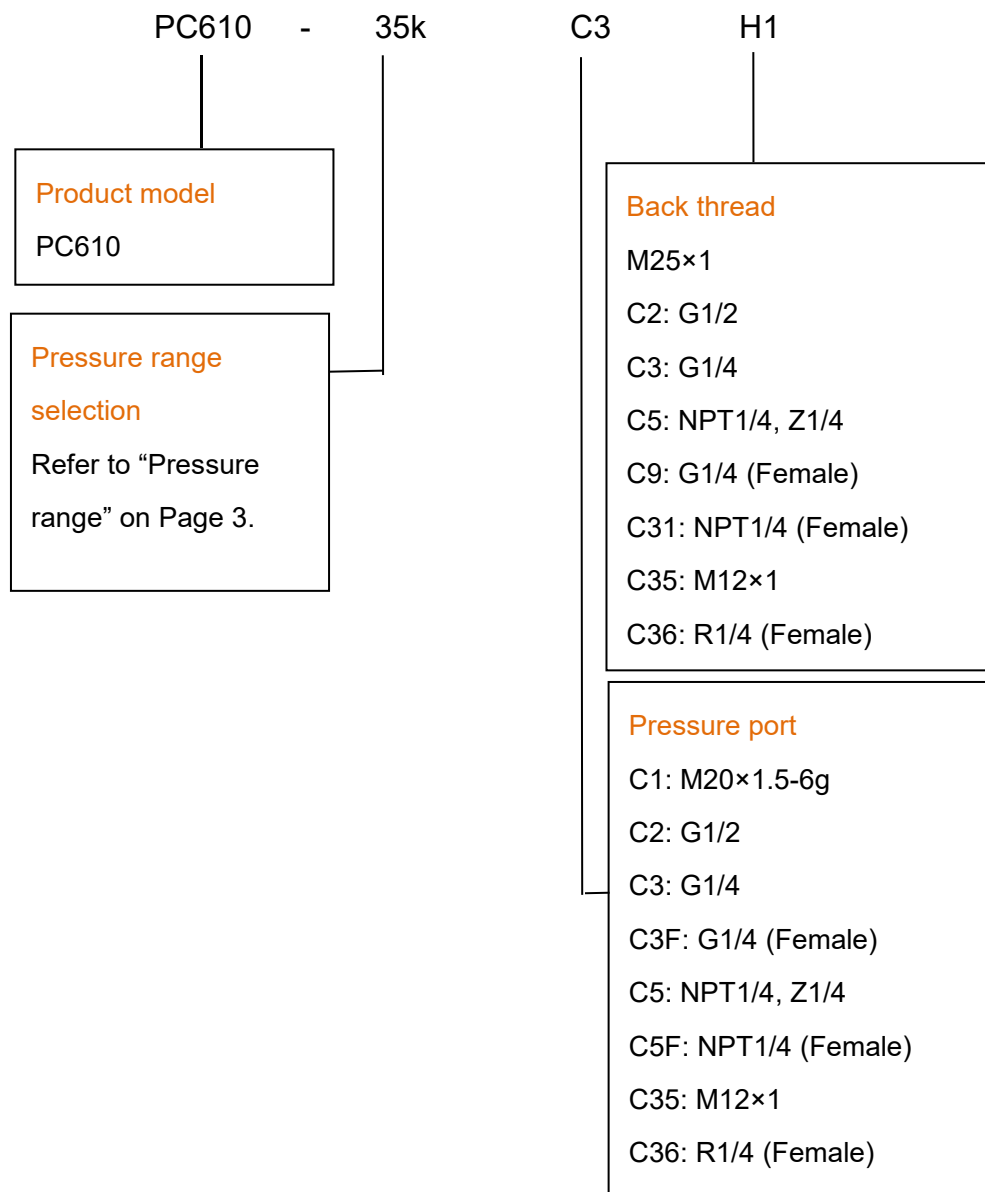
Code	C3F: G1/4(Female)	C5: NPT1/4, Z1/4	C5F: NPT1/4(Female)
Dimension In mm			
Recommended torque	15~5Nm	15~25Nm	15~25Nm
Code	C35: M12×1	C36: R1/4 (Female)	-
Dimension In mm			-
Recommended torque	15~25Nm	15~25Nm	-

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

### Pressure range selection

Pressure range code	Pressure range	Positive overpressure	Negative overpressure	Remark
10k	0~10kPa	300%FS	300%FS	
20k	0~20kPa	300%FS	300%FS	
35k	0~35kPa	300%FS	300%FS	
70k	0~70kPa	200%FS	300%FS	
100k	0~100kPa	200%FS	300%FS	
200k	0~200kPa	200%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	150%FS	150%FS	

**How to order**



Example: PC610-35kC3H1

PCM610: product model. 35k: pressure range, 0~35kPa differential pressure. C3: pressure port G1/4. H1: back thread M25×1. 4-wire lead-out, 1.5 mA excitation, mV output.

**Ordering tips**

- 1.Ensure compatibility between measured media and contacting part of product.
- 2.For special requirements on the appearance and performance parameters, customization is available.



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**

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