PC610 Differential Pressure Sensor

Features

- 316L stainless steel isolation diaphragm structure
- Measurement of differential pressure values
- Easy to install
- Constant current excitation
- Wide temperature compensation
- Enduring high static pressure
- Customized according to customer requirements

Applications

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

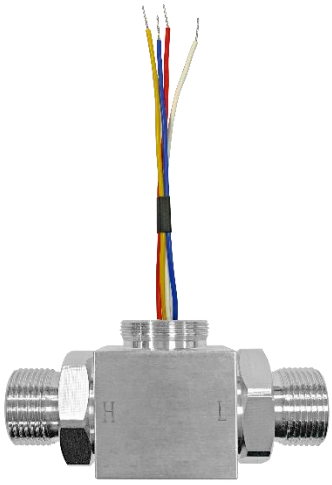
Notes:

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

The PC610 differential pressure sensor is assembled with the OEM oil-filling silicon piezoresistive differential pressure sensing element. The shell is of an 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 an impulse pipe. PC610 can be easily installed and used, widely used in process control, aviation, aerospace, automobile, medical equipment, HVAC, and other fields for measurement and control of the differential pressure, liquid level, and flow.

Notes:

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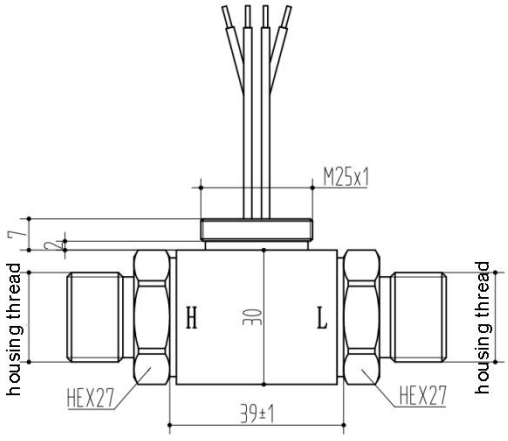
Performance parameters	
Pressure range	0~10kPa…2.5MPa
Static pressure	4MPa (max)
Pressure reference	Differential pressure
Excitation	1.5mA
Zero point	±2mV
Non-linearity	±0.25%FS (type)
Temperature drift	±1.5%FS (≤35kPa, @0℃~60℃; >35kPa, @-10℃~70℃)
Ambient temp.	-10℃~70℃
Medium temp.	-10℃~70℃
Storage temp.	-40℃~125℃
Insulation resistance	100MΩ/250VDC
Shock	10g/11ms
Max. mounting torque	25N·m
Material	304

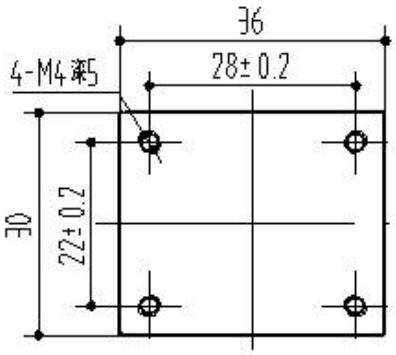
Appearance structure

Dimension

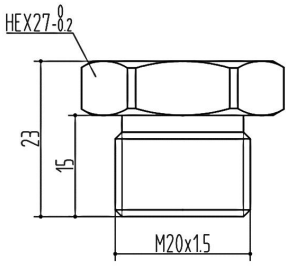
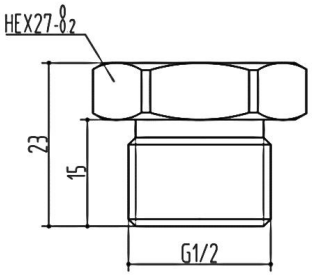
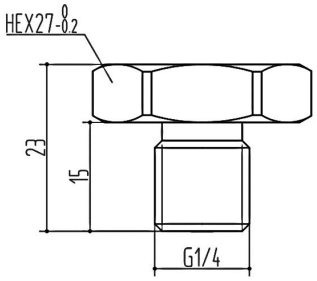
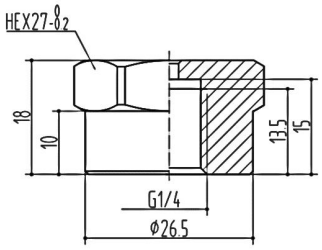
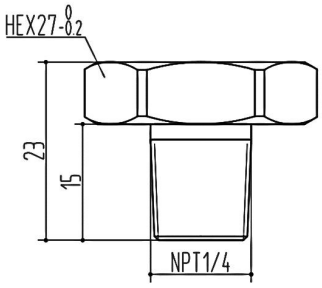
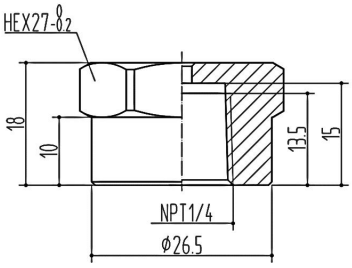
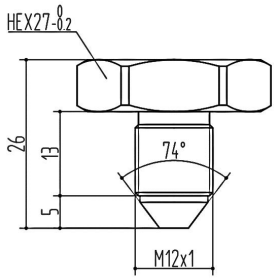
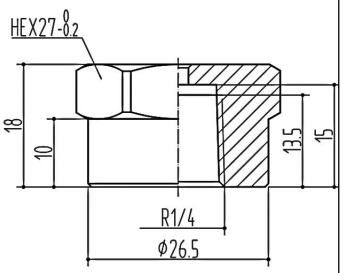
In mm



Structure & dimension



Bottom installation

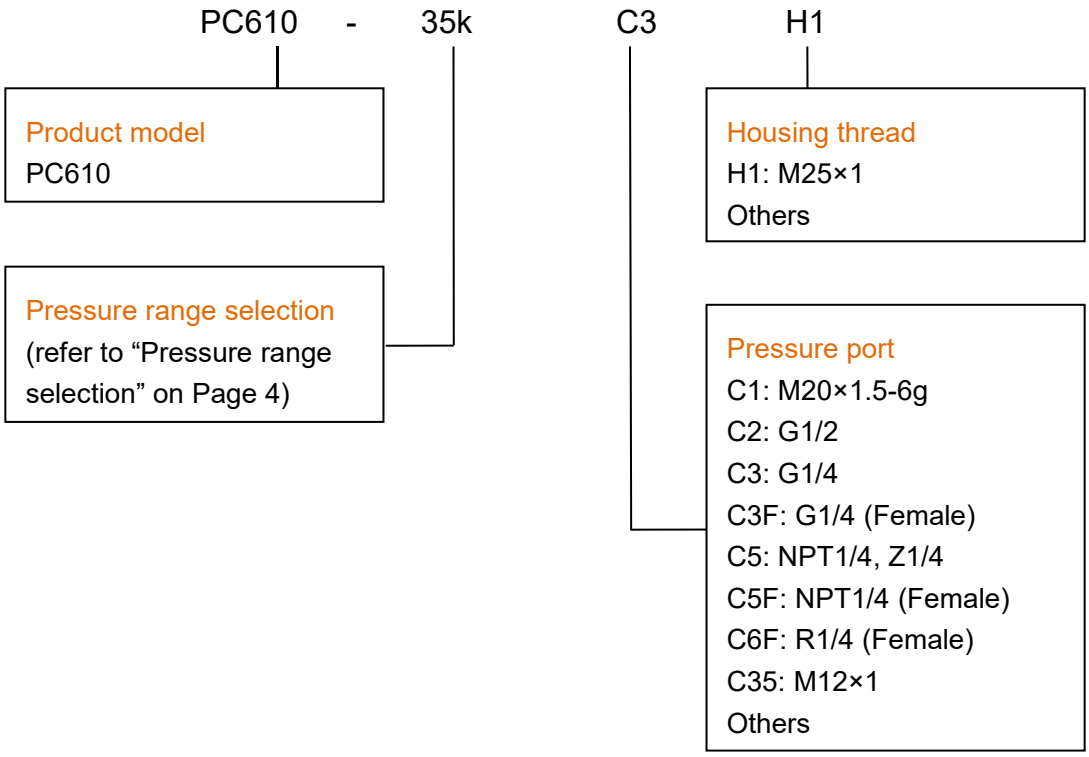
Pressure connection			
Code	**C1: M20×1.5-6g**	**C2: G1/2**	**C3: G1/4**
Dimension In mm			
Recommended torque	15~25N·m	15~25N·m	15~25N·m
Code	**C3F: G1/4 (Female)**	**C5: NPT1/4, Z1/4**	**C5F: NPT1/4 (Female)**
Dimension In mm			
Recommended torque	15~25N·m	15~25N·m	15~25N·m
Code	**C35: M12×1**	**C36: R1/4 (Female)**	-
Dimension In mm			-
Recommended torque	15~25N·m	15~25N·m	

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

Pressure range selection

Pressure range code	Pressure range	Positive overpressure	Negative overpressure	Note
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	200%FS	
100k	0~100kPa	200%FS	200%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: pressure range 0~35kPa, deferential pressure, 4-wire lead-out, 1.5mA excitation, mV output, pressure port G1/4, housing thread M25×1.

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.

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