

# PCM1610 Monocrystalline Silicon Differential Pressure Transmitter

## Features

- Imported ultra-high stability differential pressure die
- High accuracy and excellent stability
- Static pressure error within  $\pm 0.1\%FS/10MPa$
- Patented double overpressure protection diaphragm design
- Unilateral overpressure limit of up to 16MPa
- High accuracy temperature sensor inside
- Intelligent temperature compensation
- Positive and negative pressure completely symmetrical, no O-ring inside
- All welded integrated structure

## Applications

- Mobile tank monitoring
- Thermal meter manufacturing

### 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.



## Overview

PCM1610 Monocrystalline Silicon Differential Pressure Transmitter uses high stability differential pressure chip. The world's original monocrystalline silicon floating design achieves internationally leading high-precision, ultra-high overload performance and superior stability. The embedded signal processing module achieves a perfect combination of static pressure and temperature compensation, achieving high accuracy and long-term stability over a wide range of static pressure and temperature changes.

The PCM1610 Monocrystalline Silicon Differential Pressure Transmitter uses voltage power supply, and convert the measured differential pressure value into 4~20mA current signal.

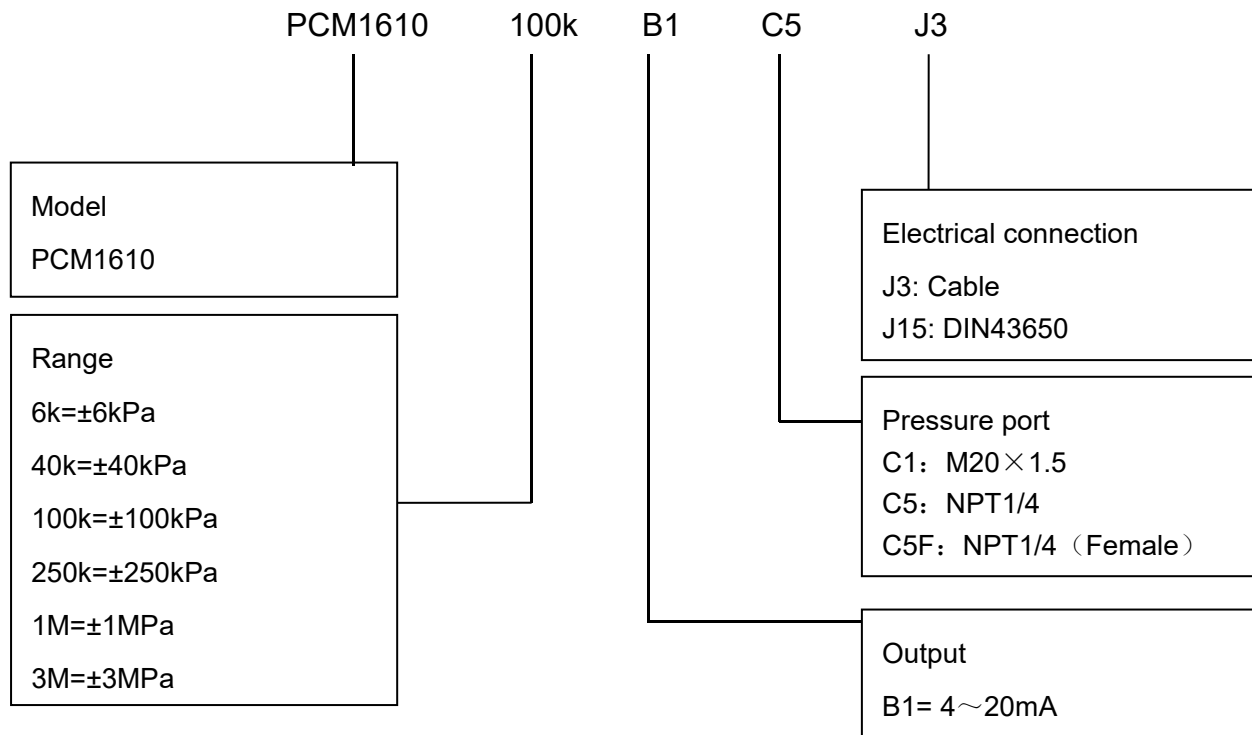
### Notes:

- 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.

### Performance parameters

Pressure range	±6kPa、±40kPa、±100kPa、±250kPa、±1MPa、±3MPa
Supply	10~24VDC, 24VDC is recommended
Output	4~20mA,
Operating temp.	-30~75℃
Storage temp.	-40℃~125℃
Compensation temp.	-20~70℃
Accuracy	±0.25%FS (25±5℃)
Overall accuracy	±0.5%FS (-20~70℃, standard pressure range)
Overpressure	16MPa
Maximum static pressure	40MPa
Insulation resistance	≥200MΩ/500VDC
Response time	≤300ms (up to 90%FS)
Long term stability	±0.1%FS/year
IP protection	IP65
Material	Stainless steel
Medium compatible	Various medium compatible with 304 stainless steel

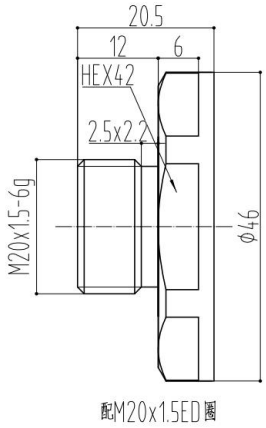
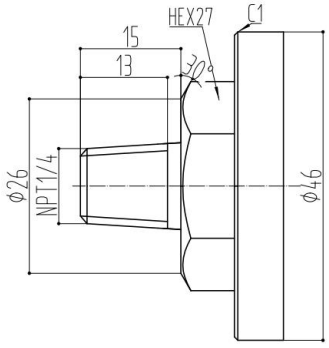
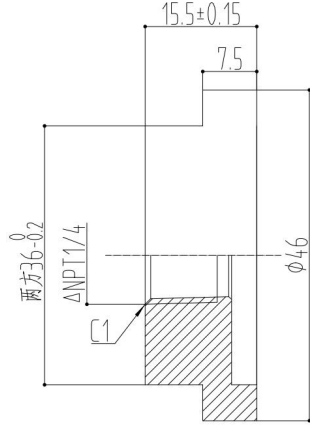
### How to order



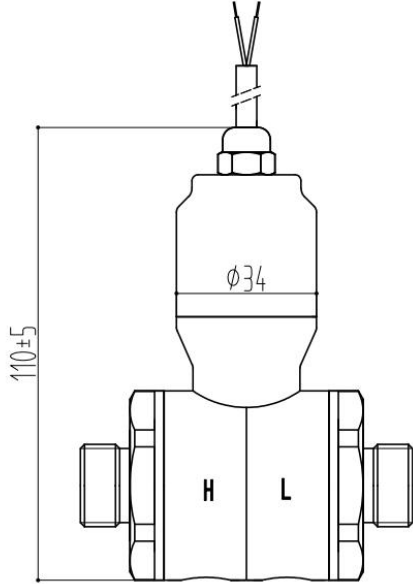
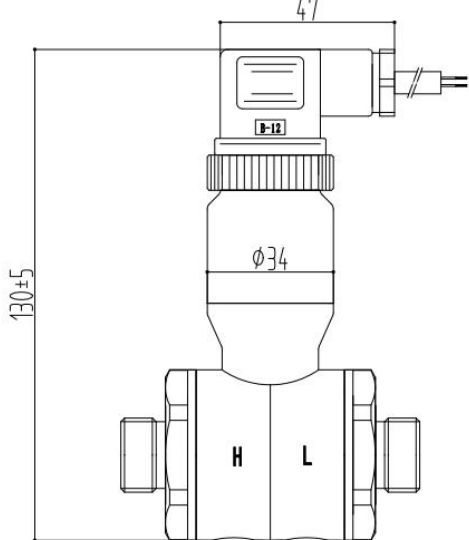
Example: PCM1610-100k B1 C5 F J3

Refer to product model PCM1610, with pressure range 0-1.5kPa~100kPa, output signal 4~20mA, pressure port NPT1/4 Female, electrical connection cable outlet.

**Pressure port**

Code	C1: M20×1.5-6g	C5: NPT1/4	C5F: NPT1/4 female
Dimension			

**Electrical connection**

Code	J3: cable	J15: DIN43650
Dimension		

**Ordering tips:**

Accessories need to be ordered separately.