

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 40MPa
- 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.
- 4 Misuse of the product may cause danger or personal injury.



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 or 4~20mA+RS485-MODBUS protocol current signal.

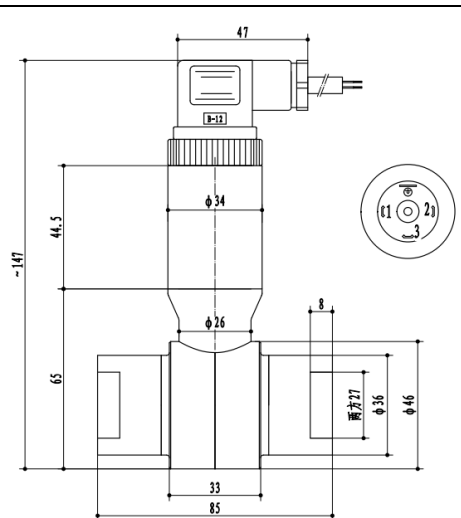
Notes:

- 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.
- 4 Misuse of the product may cause danger or personal injury.

Performance parameters

Pressure range	0~2kPa…3MPa
Supply/output	4~20mA, 4~20mA+RS485-MODBUS (10~28VDC)
Operating temp.	-40℃-85℃
Storage temp.	-40℃~125℃
Compensation temp.	-20~80℃
Temp. coefficient	1.5% (-20~80℃)
Overpressure	16MPa
Maximum static pressure	40MPa
Mechanical vibration	20g(20~5000Hz)
Shock	100g (11ms)
Overall accuracy	0.5%FS
Insulation resistance	100MΩ/250VDC(200MΩ/250VDC)
Response time	≤1ms (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

Electrical connection

Code	Dimension Unit: mm
J15:DIN43650	

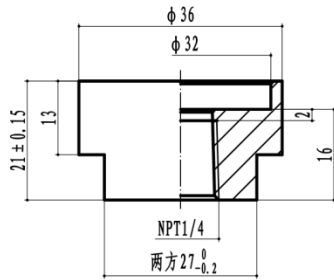
Connection method

Connection method	DIN43650
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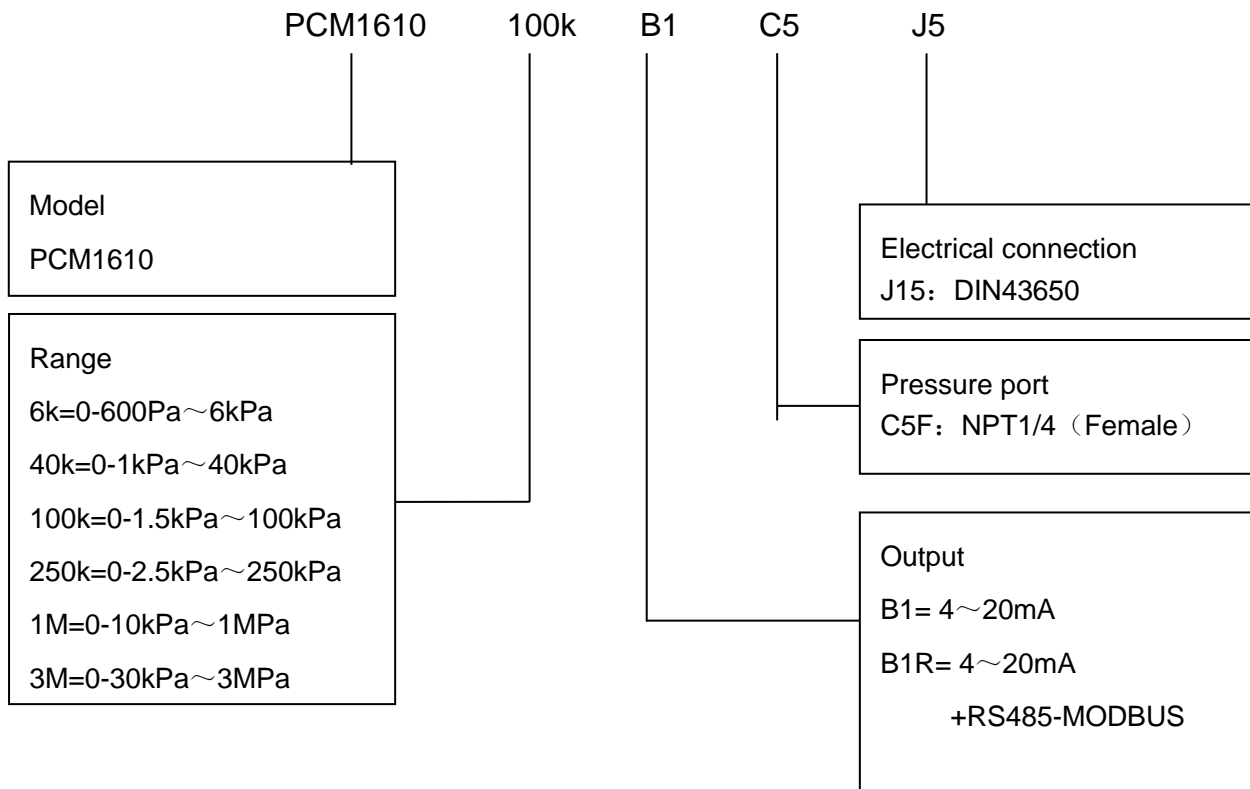
Pressure port

Code	C5F: NPT1/4 (Female)
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Dimension:
mm



How to order



Example: PCM1610-100kB1RC5FJ5

Refer to product model PCM1610, with pressure range 0-1.5Pa~100kPa, output signal 4~20mA+RS485-MODBUS, pressure port NPT1/4 Female, electrical connection DIN43650.

Ordering tips:

Accessories need to be ordered separately

Contact us

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