

PCM1610 Monocrystalline Silicon Differential Pressure Transmitter

Features

- Imported ultra-high stability and high-precision differential pressure die
- Accurate measurement of the Pa range differential pressure signal
- Static pressure error within $\pm 0.1\%FS/10MPa$
- Dual overload protection diaphragm design
- Unilateral overpressure limit up to 16MPa
- High-accuracy temperature sensor inside
- Intelligent temperature compensation
- Positive and negative pressure are completely symmetrical, without an O-ring
- Fully welded and exquisite design; small size and powerful functions

Applications

- Mobile tank monitoring
- Manufacturing of thermal meters

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

The PCM1610 Monocrystalline Silicon Differential Pressure Transmitter uses the imported high-stability differential pressure chip as its internal differential pressure sensitive core. Its world's unique monocrystalline silicon dual-beam suspension design achieves internationally leading high precision, ultra-high overpressure performance, and superior stability. The embedded signal processing module achieves a perfect combination of static pressure and temperature compensation, ensuring high accuracy and long-term stability over a wide range of static pressure and temperature changes.

The PCM1610 compact monocrystalline silicon differential pressure transmitter features internal constant current/voltage excitation and converts the measured differential pressure value into a 4~20mA current signal.

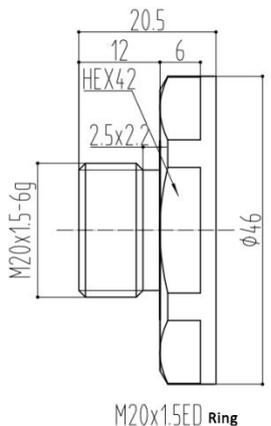
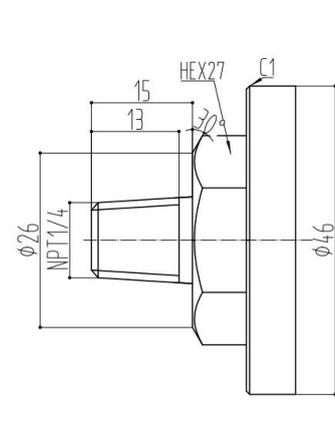
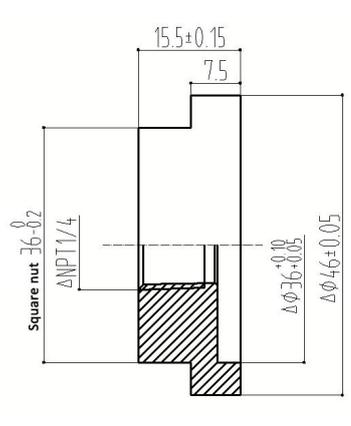
Notes:

- 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.

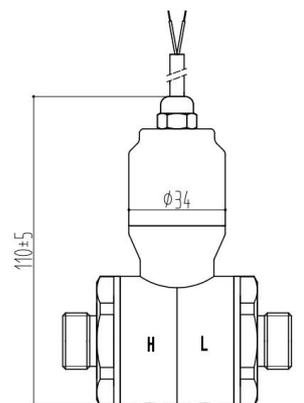
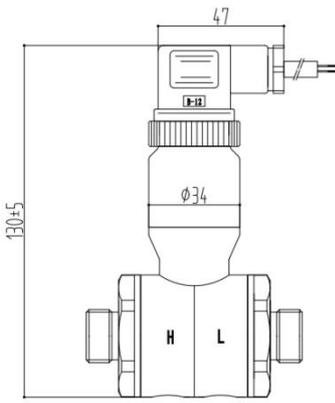
Performance parameters

Pressure range	±6kPa, ±40kPa, ±100kPa, ±250kPa, ±1MPa, ±3MPa
Supply	12~24VDC, 24VDC recommended
Output signal	4~20mA
Operating temp.	-30~75°C
Storage temp.	-40°C~125°C
Compensation temp.	-20~70°C
Accuracy	±0.25%FS (25±5°C)
Overall accuracy	±0.5%FS (-20~70°C, standard pressure range)
Overpressure	16MPa
Maximum static pressure	40MPa
Insulation	≥200MΩ/500VDC
Response time	≤300ms (up to 90%FS)
Long-term stability	±0.1%FS/year
Protection	IP65
Material	All stainless steel
Medium compatibility	Various media compatible with 304 stainless steel

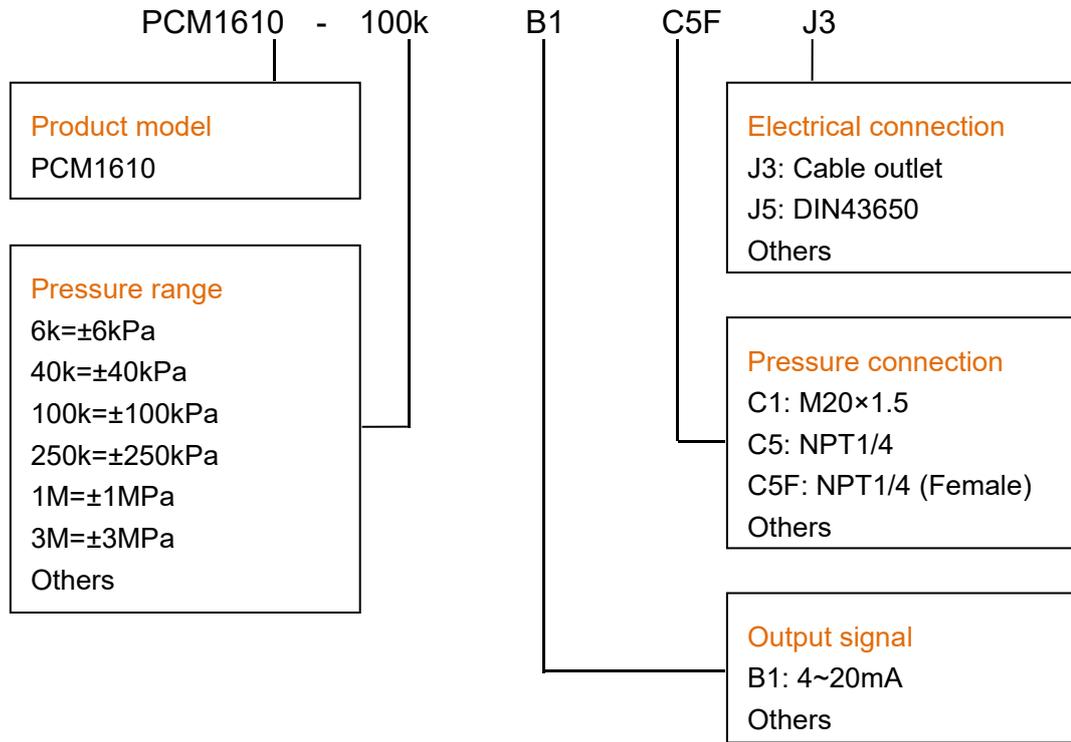
Pressure port

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

Electrical connection

Code	J3: Cable outlet	J5: DIN43650
Dimension		

How to order



Example: PCM1610-100kB1C5FJ3

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

Ordering tips

- 1 Accessories need to be ordered separately.
- 2 If another electrical connection type is required, please specify.

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

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

E-Mail: dr@wtsensor.com