# PCT200B Temperature Transmitter
# With Normal / Movable Connector

## Features

- Movable connector, easy to install
- High strength, high pressure resistance
- Integrated structure
- Long-term stable work
- Fast response
- Reliable structure

## Applications

- Equipment support
- Automatic temperature measurement and control systems such as pumps, compressors, natural gas pipelines, etc.
- Temperature measurement of water or oil in petroleum, chemical, electric power, textile, and environmental protection fields, etc.

**Notes:**

1 When measuring temperature, the temperature measuring element should reach thermal equilibrium with the measured object.

2 Make sure the insertion length is accurate.

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.

5 Misuse of the product may cause danger or personal injury.

## Product overview

PCT200B Temperature Transmitter with Normal / Movable Connector is a specially designed transmitter for easy installation. It adopts imported high-performance, high-reliability platinum resistance, goes through precise temperature and non-linear compensation, and employs good performance modular signal processing technology to measure and calibrate medium temperature and output industrial control standard signals.

The product shell adopts all-stainless steel integrated processing, featuring small size, fast thermal response, etc. The wire adopts special shielded wire which has a wide temperature range. PCT200B is easy to install and has extremely high vibration resistance and shock resistance.
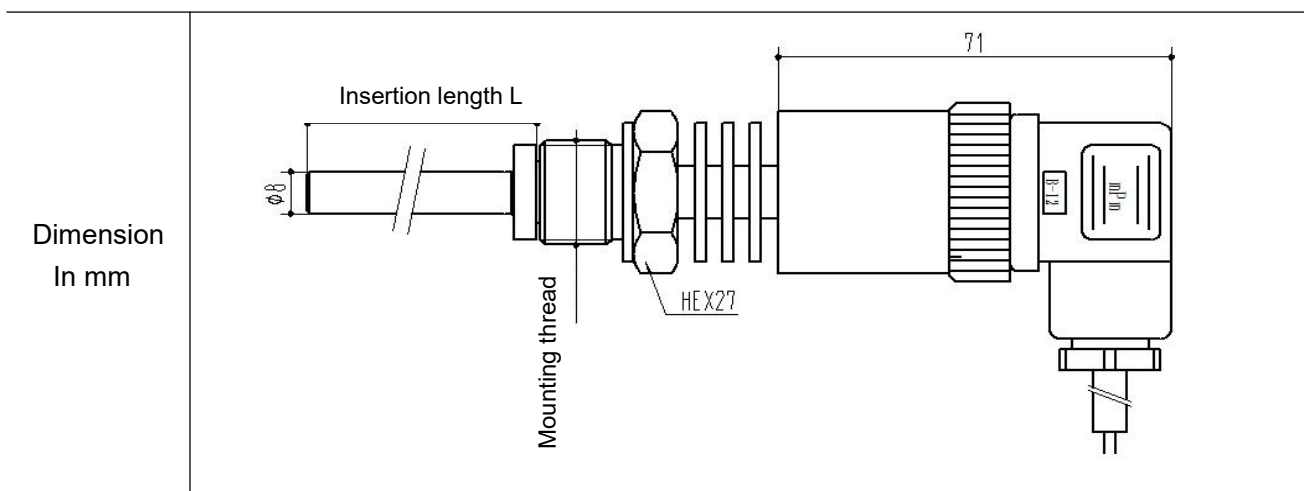
**Notes:**

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.

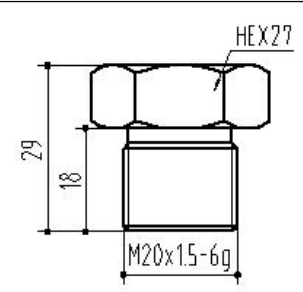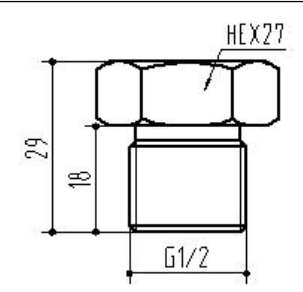4 Misuse of the product may cause danger or personal injury.

**www.wtsensor.com**

## Performance parameters

| | |
|---|---|
| Temperature range | -50℃~250℃ |
| Supply & output | 4~20mA(16~36VDC) |
| Accuracy | ±0.5%FS(typ.) |
| Sensing element | Pt100 Grade A |
| Insulation strength | 100MΩ/250VDC |
| Response time | ≤30s |
| Long term stability | ≤0.2%FS/year |
| Insertion diameter | Φ8mm |
| Storage temp. | -40℃~85℃ |
| Electrical connection | DIN43650 |
| Protection | IP65 |
| Material | 304 |
| Max. mounting torque | 25Nm |

## Structure

| | |
|---|---|
| Dimension In mm |  |

## Pressure port

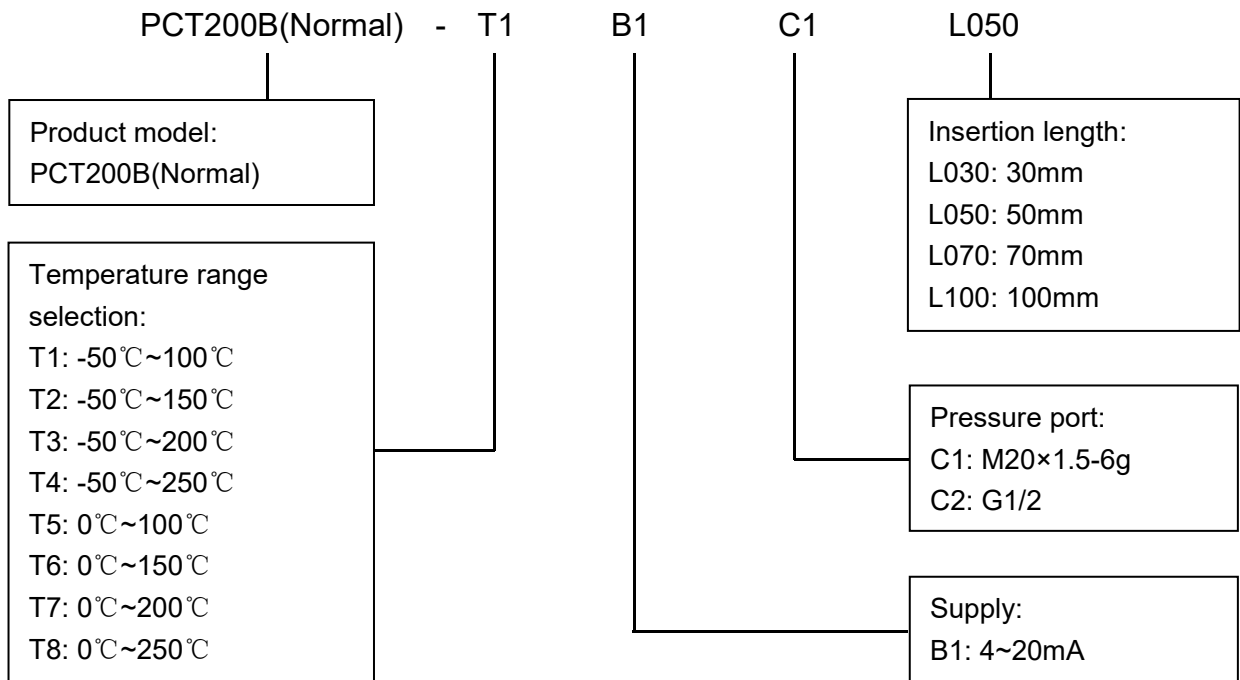| Thread code | C1: M20×1.5-6g | C2: G1/2 |
|---|---|---|
| Dimension In mm |  |  |
| Recommended torque | 15~25Nm | 15~25Nm |

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

**www.wtsensor.com**

| Temperature range code | Temperature range | Remark |
|---|---|---|
| T1 | -50℃~100℃ | |
| T2 | -50℃~150℃ | |
| T3 | -50℃~200℃ | |
| T4 | -50℃~250℃ | |
| T5 | 0℃~100℃ | |
| T6 | 0℃~150℃ | |
| T7 | 0℃~200℃ | |
| T8 | 0℃~250℃ | |

**Accessory**

| Name | Appearance | Description | Part number |
|---|---|---|---|
| DIN43650 connector |  | OMAL | 100040301013 |
| DIN43650 connector with wire |  | OMAL 1.5m | 100040301018 |
| Aluminum gasket |  | PCT200-020-8 | 100036010005 |
| LCD display |  | LCD12 | 100040100008 |

**www.wtsensor.com**

PCT200B(Normal) - T1    B1    C1    L050

Product model:
PCT200B(Normal)

Temperature range
selection:
T1: -50℃~100℃
T2: -50℃~150℃
T3: -50℃~200℃
T4: -50℃~250℃
T5: 0℃~100℃
T6: 0℃~150℃
T7: 0℃~200℃
T8: 0℃~250℃

Insertion length:
L030: 30mm
L050: 50mm
L070: 70mm
L100: 100mm

Pressure port:
C1: M20×1.5-6g
C2: G1/2

Supply:
B1: 4~20mA

Example: PCT200B(Normal)-T2B1C1L050

Refer to product model PCT200B(Normal), with temperature range -50℃~150℃, supply 16~36VDC, output signal 4~20mA, pressure port M20×1.5-6g, and insertion length 50mm.

## Ordering tips:

（1）Ensure compatibility between measured media and contacting part of product.

（2）For special requirements on the product 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

Nanjing Wotian Technology Co.,Ltd.

website: www.wtsensor.com

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

Email: dr@wtsensor.com