

PCM400T High Temperature Pressure Transmitter

Features

- Using high performance diffused silicon piezoresistive sensor
- Used for pressure measurement of gas, liquid and other media
- Wide pressure range
- With digital display
- Multiple output signals can be selected

Applications

- Industrial field control
- Oilfield
- Heavy industry
- Chemical Industry
- Gas pipe network
- Water supply network

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.



Product overview

PCM400T High Temperature Pressure Transmitter uses a high performance, high stability OEM pressure sensor as the signal measuring element. The sensor signal is converted into standard signal transmission through special signal processing. After long-term aging and stability screening, the product performance is stable. It can be applied to the harsh environment of the open field, and meanwhile ensures the field pressure display, with zero point and full span transferable.

PCM400T High Temperature Pressure Transmitter install Interface form, not only can be processed according to user requirements, but also can be provided with other brands of transmitter compatible specifications. This series of products are widely used in industrial process control, petroleum, chemical industry, metallurgy and other industries.

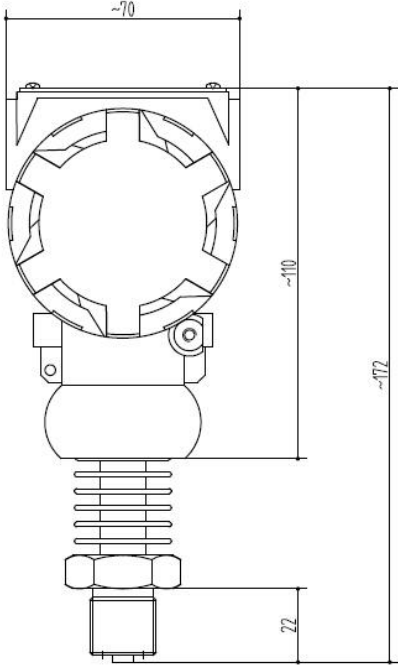
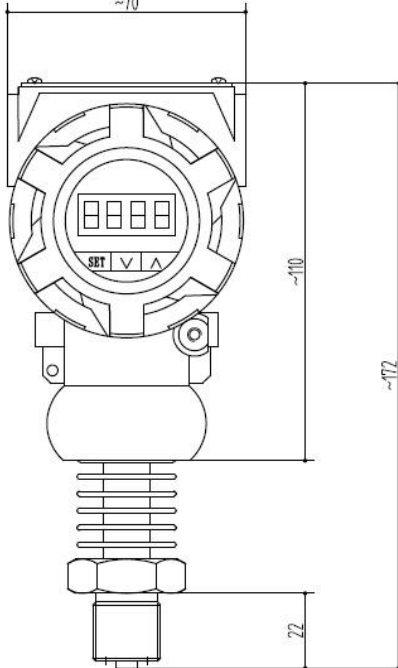
Notes:

- 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	-100kPa...0~20kPa...100MPa
Pressure reference	Gauge pressure ,Absolute pressure ,Sealed gauge pressure
Supply & output	Supply:18-36V;Output:4-20mA
	Supply:12-36V;Output:4-20mA with display;
	Supply:12-32V;Output:1-5V,0-5V,0.5-4.5V,0-10V
Operating temp.	-20°C~85°C
Medium temp.	-20°C~85°C
Storage temp.	-40°C~125°C
Zero temp. coefficient	±1.5%FS(@-20°C~85°C)
Span temp. coefficient	±1.5%FS(@-20°C~85°C)
Overpressure	150%FS~300%FS
Mechanical vibration	20g (20~5000Hz)
Shock	100g/11ms
Overall Accuracy	±0.5%FS
Insulation	100MΩ/250VDC
Response time	≤1ms (up to 90%FS)
Long term stability	±0.2%FS/year
EMC surge	(IEC61000-4-5) 2kV
EMC static	(IEC61000-4-2) contact discharge 8kV, air discharge 15kV
Protection	IP65
Material	Low copper aluminum alloy for shell, 316L for isolation diaphragm
Medium compatibility	All the media compatible with stainless steel 316L

Electrical connection and wiring method

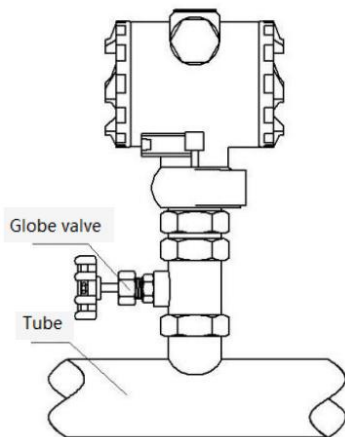
Type	J1: 2088 housing	J2: 2088 housing with display
Dimension in mm		

Connection mode (Current output)		
Connection mode (Voltage output)		

Pressure connection

Type	C1: M20×1.5	C2: G1/2	C7: NPT1/2
Dimension In mm			

Installation (for reference only)



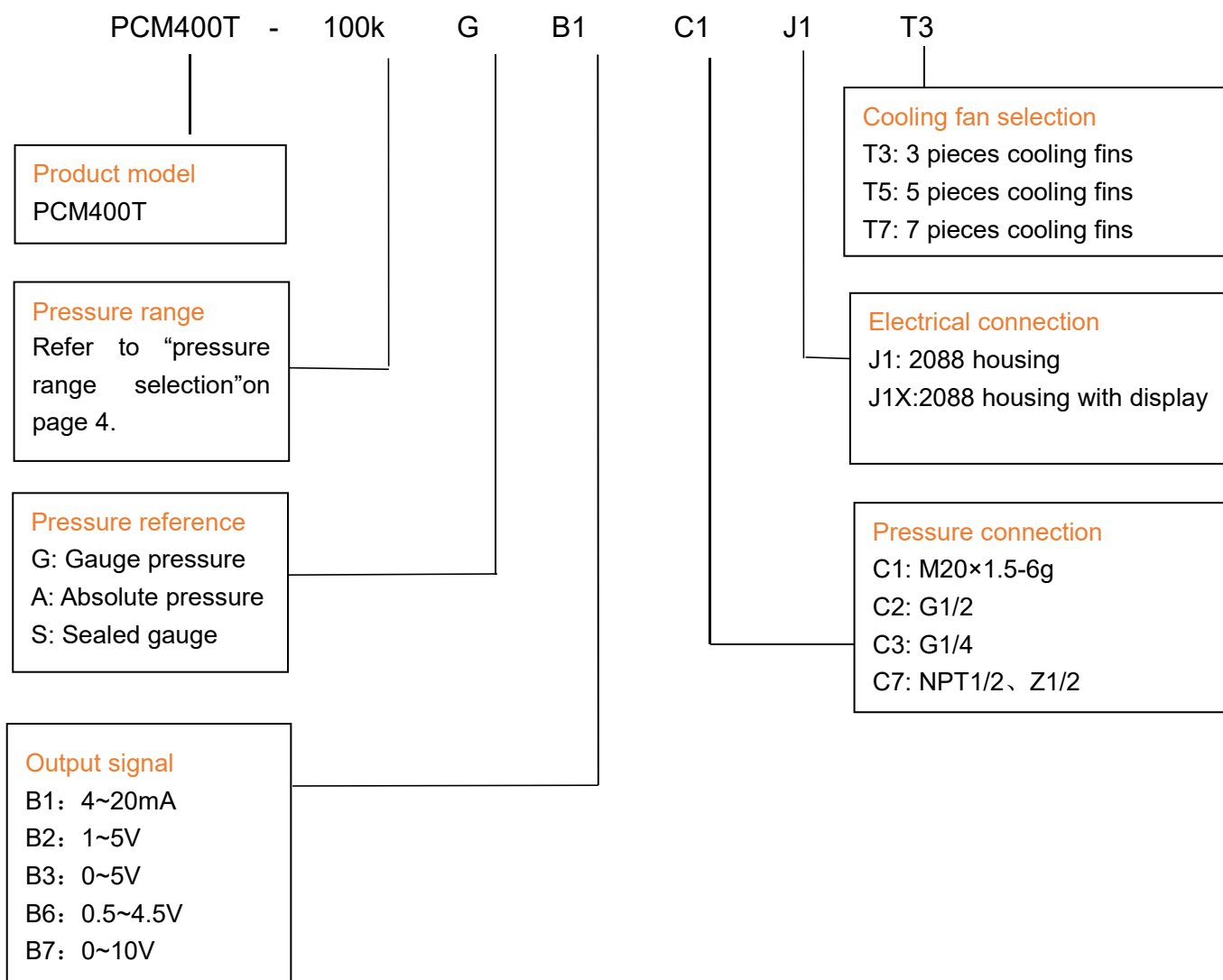
Installation tips:

- (1) The product is installed vertically at the field pressure interface.
- (2) When installing in the open air, the transmitter should be placed in a ventilated and dry place as far as possible to avoid direct illumination by strong light and rain, otherwise the performance will deteriorate or fail.
- (3) When the products are installed in thunderous areas, "Lightning Protection" should be marked when ordering. At the same time, it is recommended that users install lightning protection devices on site and ensure reliable grounding of the products and power supply, which can reduce the damage probability of lightning to the transmitter.
- (4) If the transmitter is found to have no output or abnormal output after installation, please check:
 - ① Whether the electrical connection is right and firm;
 - ② Whether the power supply voltage is too low and whether the load resistance is too large.

Pressure range selection

Pressure range code	Pressure reference	Pressure range	Overpressure	Burst pressure	Remark
10kG	G	0~10kPa	300%FS	600%FS	
20kG	G	0~20kPa	300%FS	600%FS	
35kG	G	0~35kPa	300%FS	600%FS	
70kG	G	0~70kPa	300%FS	600%FS	
100kG	G	0~100kPa	200%FS	500%FS	
160kG	G	0~160kPa	200%FS	500%FS	
250kG	G	0~250kPa	200%FS	500%FS	
400kG	G	0~400kPa	200%FS	500%FS	
600kG	G	0~600kPa	200%FS	500%FS	
1MG	G	0~1MPa	200%FS	500%FS	
35kA	A	0~35kPa	200%FS	500%FS	
100kA	A	0~100kPa	200%FS	500%FS	
160kA	A	0~160kPa	200%FS	500%FS	
250kA	A	0~250kPa	200%FS	500%FS	
400kA	A	0~400kPa	200%FS	500%FS	
600kA	A	0~600kPa	200%FS	500%FS	
1.6MS	S	0~1.6MPa	200%FS	500%FS	
2.5MS	S	0~2.5MPa	200%FS	500%FS	
6MS	S	0~6MPa	200%FS	400%FS	
10MS	S	0~10MPa	200%FS	400%FS	
16MS	S	0~16MPa	200%FS	400%FS	
25MS	S	0~25MPa	150%FS	400%FS	
40MS	S	0~40MPa	150%FS	300%FS	
60MS	S	0~60MPa	150%FS	300%FS	
100MS	S	0~100MPa	150%FS	300%FS	
N1k	G	-100~0kPa	150%FS	300%FS	
N2k	G	0~-100kPa	150%FS	300%FS	
NP100k	G	±100kPa	150%FS	300%FS	
(-100~160)k	G	-100~160kPa	150%FS	300%FS	
(-100~250)k	G	-100~250kPa	150%FS	300%FS	
(-100~400)k	G	-100~400kPa	150%FS	300%FS	
(-100~600)k	G	-100~600kPa	150%FS	300%FS	
NP5k	G	±5kPa	150%FS	300%FS	

Note: G stands for gauge pressure, A, absolute pressure, S, sealed gauge pressure.



Example: PCM400T-100kGB1C1J1T3

Product model: PCM400T. 100k: pressure range 0~100k. G: gauge pressure. B1: output signal 4~20mA. C1: pressure connection M20×1.5-6g. J1: 2088 housing without display. T3: 3 pieces cooling fins.

Optional accessories

White plastic tight wire and plug are standard, and metal tight wire and plug can be selected at your own expense. Please explain in the order.

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