

PCT002 Thermocouple Temperature Transmitter

Features

- Temperature measurement range
- Easy installation
- High temperature measurement accuracy
- Long-term stability
- Long life cycle

Applications

- Electric power, aerospace industry
- Temperature measurement in textile, food and other fields
- Atomic energy, petroleum, chemical

Note:

Notes:

- 1 Please read the Instruction Manual of the product carefully before installation and check the relevant information of the product.
2. Follow the instructions to install, otherwise it will cause product damage and other potential failures
- 3 Misuse of the product may cause danger or personal injury.



Product overview

PCT002 thermocouple, matched with display instrument, can perform temperature measurement in the temperature range of $-200 \sim 1600\text{ }^{\circ}\text{C}$. It consists of two homogeneous conductors (electrodes) with different chemical compositions. When there is a temperature difference between the two ends of the gear, an electromotive force is generated between the two ends, and a current will flow through the circuit. This phenomenon is called a non-temperature difference electric phenomenon. On the potentiometer, the value of the thermoelectromotive force will be displayed. Widely used in aerospace, atomic energy, petroleum, chemical, metallurgy, machinery and other departments and scientific and technological fields.

Notes:

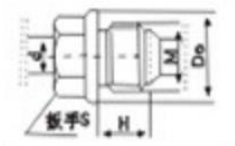
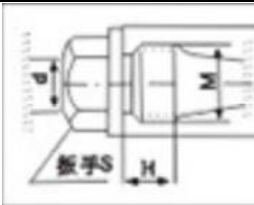
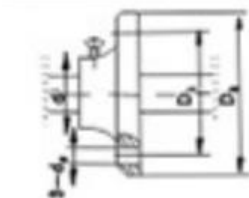
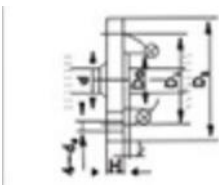
- 1 Do not misuse documentation.
- 2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- 3 Complete installation, operation, and maintenance information is provided in the instructions of the product.
- 4 Misuse of the product may cause danger or personal injury.

Technical Indicators

name Thermocouple	I level		II level		III level	
	Measure ment ranges°C	Tolerance °C	Measurem ent ranges°C	Tolerance °C	Measure ment ranges°C	Toleran ce °C
Platinum armor 10-Pa	0~1600	1.0or± {1+0.03 (t-1100)}	0~1600	± 1.5 or± 0.25%t	/	/
Platinum armor 13-pa	0~1600					
Platinum armor 30-armor platinum 6	/	/	600~1700		600~170 0	± 4.0or ± 0.5%t
NiCr-NiSi	-40~1100	± 1.5or ± 4.0%t	-40~1300	± 2.5 or± 0.75%t	-200~400	± 2.5 or ± 1.5%t
NiCrSi-NiSiMg	-40~1100		-40~1300		-200~400	
Nichrome-Const antan	-40~800		-40~900		-200~40	
Iron-constantan	-40~750		-40~750		/	/
Copper-constant an	-40~350	± 1.5or ± 4.0%t	-40~350	± 1.0or± 0.75%t	-200~40	± 1.0or ± 1.5%t

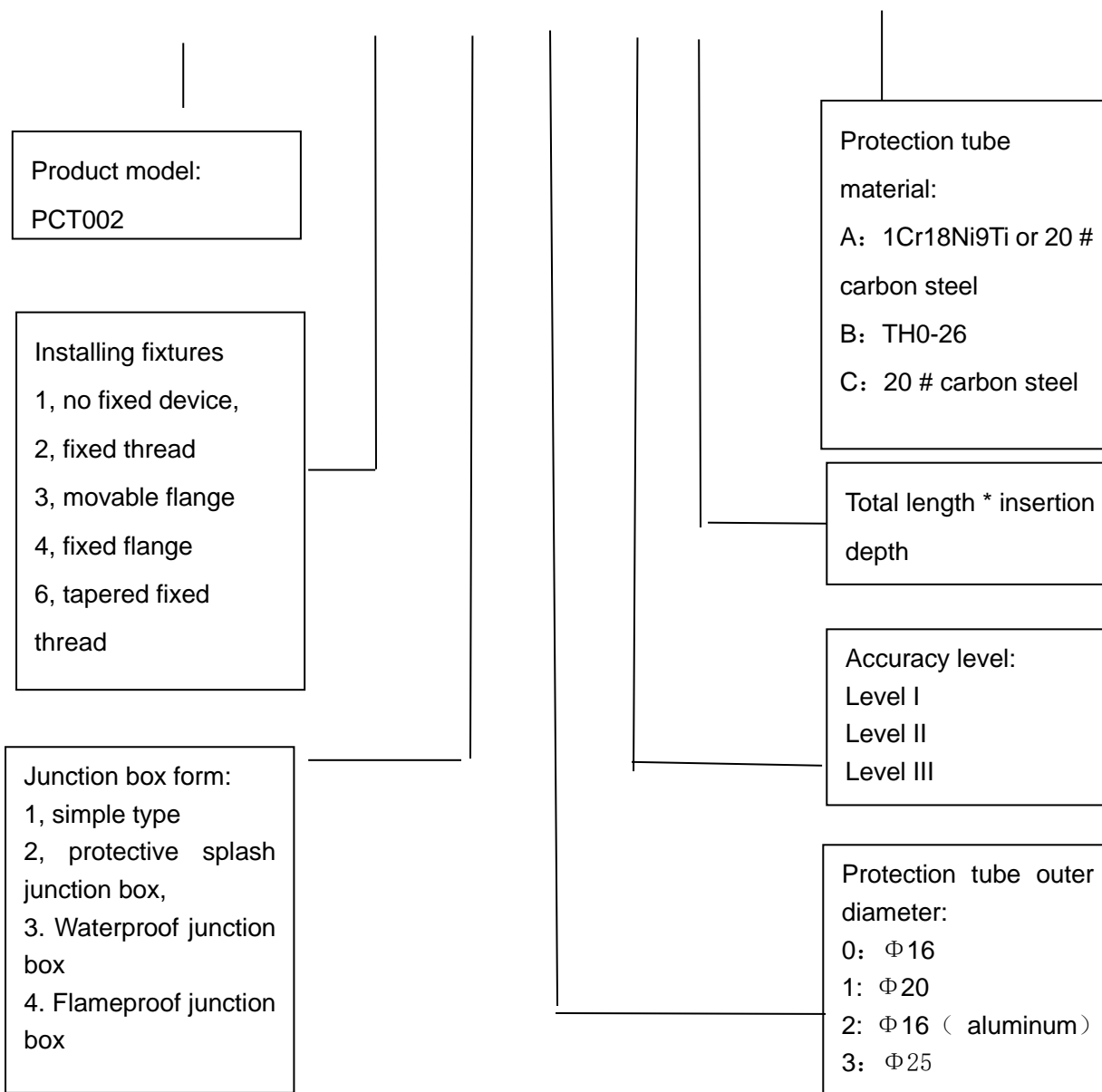
Normal temperature insulation resistance		High temperature insulation resistance						Test voltage
L≤1m	≥1m	≥100°C <300°C	≥300°C <500°C	≥500°C <850°C	≥850°C <1000°C	≥1000°C <1300°C	≥1300°C	500±50V
100 MΩ	100M Ω m	10 MΩ	2MΩ	0.5 MΩ	0.08 MΩ	0.02 MΩ	0.02 MΩ	

Material	Outer diameter mm	Response time T0.5s	Length mm
Not Metal	Φ 16	≤240	300, 350, 400, 450, 550, 650, 900, 1150, 1850, 2150,
	Φ 25	≤300	550, 650, 900, 1150, 1850, 2150
Metal	Φ 16	≤180	300, 350, 400, 450, 550, 650, 900, 1150, 1650, 2150, 2650
	Φ 20	≤240	
	Cone	≤300	225, 250, 300, 350, 400
	Right angle		500x500, 750x750, 500x750, 750x500

name	Structure diagram	Size mm						Protection tube		
		M		H	S		D	Dia met er: mm	material	Press ure Mpa
Fixed thread		M27×2		3 2	32		Φ4 0	Φ16	1Cr18Ni9Ti or 20 # carbon steel	≤10.0
		M33×2		35	36		Φ48	Φ20		≤1.0
Conical fixed thread		M33×2		33	36		Φ48	Cone	1Cr18Ni9Ti	≤30.0
		D1	D 2	Do	do	H	h			
Movable flange		Φ54	Φ 7 0	/	Φ 6			Φ12 Or Φ16	TH0-26	Under pressur e
Fixed flange		Φ65	Φ 9 5	Φ 45	Φ 14	1 6	3		1Cr18Ni9Ti or 20 # carbon steel	≤6.0
		Φ75	1 0 5	Φ 55				≤1.0		

How to order

PCT002 - 2 - 3- 1- II - 650*500 - C



Example: PCT002-2-3-1-II -650 * 500- C

The model is PCT002, the installation and fixing device is fixed thread, the junction box is waterproof, the accuracy class is II, and the protective tube material is 20 # carbon steel



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.

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