

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

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.



Product overview

PCT002 thermocouple, matched with display instrument, can perform temperature measurement in the temperature range of -200 \sim 1600 $^{\circ}$ C. It consists of two homogeneous conductors (electrodes) with different 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.



WILL SELISOR								
Techincal Indicators								
	I lev	vel .	II lev	rel	III level			
Thermocouple	Measurement	Tolerance ℃	Measurement	Tolerance	Measurement	Tolerance		
	ranges℃		ranges℃	$^{\circ}$	ranges℃	$^{\circ}$		
Platinum armor	0~1600	1.0or \pm	0~1600	±1.5	/	/		
10-Pa		{1+0.03		or±				
Platinum armor	0~1600	(t-1100) }		0.25%t				
13-pa								
Platinum armor	1	/	600~1700		600~1700	±4.0or		
30-armor platinum						±0.5%t		
6								
NiCr-NiSi	-40~1100	±1.5or	-40~1300	±2.5	-200~400	±2.5		
		±4.0%t		or±		or		
NiCrSi-NiSiMg	-40~1100		-40~1300	0.75%t	-200~400	±1.5%t		
Nichrome-Constan	-40~800		-40~900		-200~40			
tan								
Iron-constantan	-40~750		-40~750		1	/		
Copper-constantan	-40~350	±1.5or	-40~350	±1.0or±	-200~40	±1.0or		
		±4.0%t		0.75%t		±1.5%t		

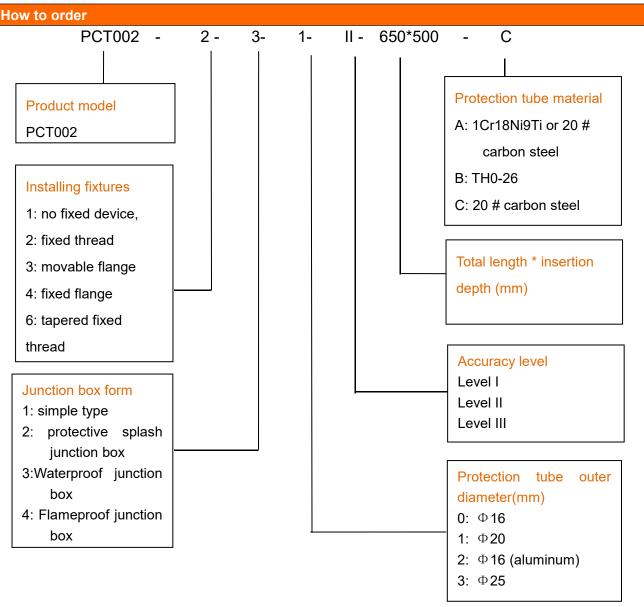
Norr temper insula resista	ature ation		High temperature insulation resistance							
L≤1m	≥1m	≥100°C	≥300°C	≥500°C	≥850 ℃	≥1000℃	≥1300 ℃			
		<300℃	<500℃	<850℃	<1000℃	<1300℃		500±50V		
100	100M	10	2M Ω	0.5	0.08	0.02	0.02			
ΜΩ	Ω	M Ω		MΩ	M Ω	M Ω	ΜΩ			

· ·		Response time	Length (mm)				
		T0.5s					
	mm						
	Ф16	≤240	300, 350,400, 450, 550, 650, 900, 1150,1850, 2150				
Not Metal	Ф25	≤300	550, 650, 900, 1150, 1850, 2150				
	Ф16	≤180	300, 350, 400, 450, 550, 650, 900, 1150, 1650, 2150,				
Metal Ф20		≤240	2650				
	Cone	≤300	225, 250, 300, 350, 400				
	Right angle		500×500, 750×750, 500×750, 750×500				



		Size (mm)						Protection Tube			
Name	Structure Diagram	М		Н	S		D	Φ(mm)	material	Pressure Mpa	
Fixed thread	数学8 出	M27×2		32	32		Ф 40	Ф16	1Cr18Ni9 Ti or 20 # carbon steel	≤10.0	
		M33×2		35	30	6	Ф 48	Ф20		≤1.0	
Conical fixed thread	数字S H	M33×2		33	36		Ф 48	Cone	1Cr18Ni9 Ti	≤30.0	
Name	Structure Diagram	D1 D2		Do	do	Н	h	Φ(mm)	material	Pressure Mpa	
Movable flange		Ф54	Ф70	1	Ф 6				TH0-26	Under pressure	
Fixed flange	1 8 6 6 1 8 6 6	Ф65 Ф95	Ф45				Ф12 Or Ф16	1Cr18Ni9	≤6.0		
		Ф75	Ф105	Ф55	Φ 14	6	3		Ti or 20 # carbon steel	≤1.0	





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

The model is PCT002, 2: the installation and fixing device is fixed thread, 3: the junction box is waterproof 1: protection tube outer diameter is Φ 20 mm ,II: the accuracy class is II, 650 * 500 mm: total length (including insertion depth 500 mm) and C: 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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