Flange NTC Thermistor Sensor 200K4200 Accuracy 1% Stamping Process High Temperature Resistance Temperature Probe Suitabl

Our Product Introduction

Basic Information

- Place of Origin: Dongguan China
- Brand Name: linkun
- Certification: CE / ROHS / UL / TUV / SGS
- Model Number: Household Appliance Temperature Sensor
- Minimum Order Quantity: Negotiation
- Price: Negotiation
- Packaging Details: Export Package / Negotiation
- Delivery Time: Negotiation
- Payment Terms: T/T, L/C, Western Union
- Supply Ability: 24 million per year

Product Specification

- Resistance Value: 1K, 5K, 10K,15K,47K, 50K, 100K, 200K
- Accracy: ±1%
- Application: Household Appliances
- Temperature Range: -40~120°C
- Feature: High Stability
- Resistance Tolerance: F±1%,G:±2%, H:±3%,J:±5%,K:±10%
- Highlight: **Moistureproof Thermal Temperature Probe**, **Tube Thermal Temperature Probe**, **Stable Temperature Sensor Tube**

More Images

Product Description

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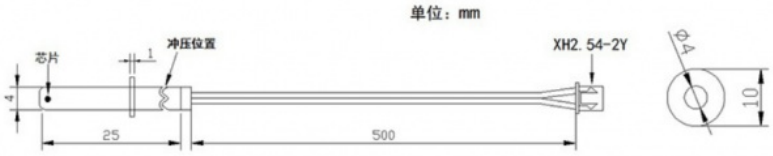
product information
Product type: Flange stamping process NTC temperature sensor Product features: strong voltage resistance and insulation, wide temperature measurement range, temperature resistance
Model usage: temperature measurement/temperature control/overheat protection
Operating temperature range: 0~+300°C
Thermal time constant: about 12S
Product withstand voltage: AC 5000V*60S
Waterproof level: Not waterproof
Product qualifications: Meet certification requirements
Product application scope:
Electric heating stove, air purifier, electric boiler, microwave oven, etc.
Product customization instructions:
(1) Resistance value of the product (nominal resistance value at 25°C, or other)
(2) Product accuracy (1%~5%)
(3) B value coefficient of the product
(4) Wire model and length (color, length, temperature resistance requirements)
(5) Wire tail specifications (tin dipped, socket plug-in, special specifications)
(6) Probe specifications and materials (nickel-plated copper, red copper, stainless steel, ABS plastic shell)
(7)Use temperature range



Product drawings are for reference; can be customized according to required parameters, specifications, and length (drawings and samples are provided)

Product Description

Certificates for Raw Material	All parts and processing is compliant with ROHS, CCC
Certificates for Wire Harness Material	UL/CSA,CE, VDE,SAA,CB,ISO9001 etc are avalable; PA66 for connectors; copper or stainless steel for terminals
Length	As per customer's request
Connector Type	Tyco, Delphi, Bosch, Deutsch, Yazaki, Sumitomo, FCI replacements
Service	Different series of customized CAD wire harness are available

NTC thermistor temperature sensor characteristics:

1. High precision and high stability
2. Fast response
3. Excellent thermal shock resistance
4. Excellent moisture resistance
5. High-tech batch production ensures high quality and high stability of products.

Conventional product electrical performance parameters

Part No.	R25℃ (KΩ)	B(K) 25/50℃	Rated Power @25℃(mW)	Dissipation Factor(δ) (mW/℃)	Thermal time Constant (S)
TS502□3274A	5.0	3274	10-20	2-4	5-20
TS502□3435B	5.0	3435	10-20	2-4	5-20
TS502□3470A	5.0	3470	10-20	2-4	5-20
TS502□3950A	5.0	3950	10-20	2-4	5-20
TS103□3274A	10.0	3274	10-20	2-4	5-20
TS103□3435B	10.0	3435	10-20	2-4	5-20
TS103□3470A	10.0	3470	10-20	2-4	5-20
TS103□3950A	10.0	3950	10-20	2-4	5-20
TS103□4100A	10.0	4100	10-20	2-4	5-20
TS153□3950A	15.0	3950	10-20	2-4	5-20
TS153□4100A	15.0	4100	10-20	2-4	5-20
TS203□3950A	20.0	3950	10-20	2-4	5-20
TS203□4100A	20.0	4100	10-20	2-4	5-20
TS223□4200A	22.0	4200	10-20	2-4	5-20
TS403□3928A	40.0	3928	10-20	2-4	5-20
TS503□3950A	50.0	3950	10-20	2-4	5-20
TS503□4100A	50.0	4100	10-20	2-4	5-20
TS104□3950A	100.0	3950	10-20	2-4	5-20
TS104□4100A	100.0	4100	10-20	2-4	5-20
TS104□4400A	100.0	4400	10-20	2-4	5-20

Reliability Test

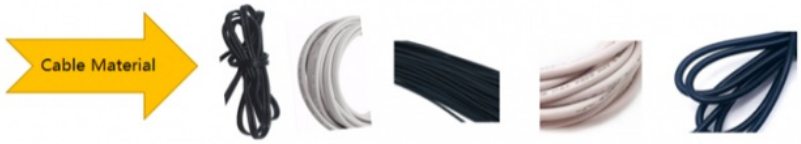
Test Item	Test Standard	Test method	Performance requirements
Zero Power Resistance	IEC 60539-1	Immerse samples in the constant temperature bath at 25℃±0.005℃,test steady resistance	Resistance tol ±1%

B value	IEC60539-1	Immerse samples in the constant temperature bath at 25℃,50℃(or 85℃), test steady resistance,and calculate B value	Resistance tol ±1%
Free fall	IEC60068-2-32	Fall height: 1.5±0.1m,Surface: Cement , 1 time	No obvious damage, R25 △R/R≤±1%
Insulation	IEC60539-1	500V pressure on insulation shell test insulation resistance	>500MOhm
Withstand voltage	IEC60539-1	Withstand voltage: 1500V/AC ,Leakage current:2mA Lasting: 60sec	No obvious damage
Tension	IEC60068-2-21	Pull uniform speed at the end, F>4.0KG(requested by customer)	No obvious damage, R25 △R/R≤±1%
Vibration	Q/HBm 108-94	Test frequency: 10~500Hz,swing: 1.2mm acceleration: 30m/s2 Direction X,Y,Z Time:8Hour/direction	No obvious damage, R25 △R/R≤±1%
Steady humidity and heat	IEC60068-2-78	Temp:40±2℃ Humidity:92-95%RH Time:1000±24Hour	No obvious damage, R25 △R/R≤±1%
Thermal time constant	EC60539-1	Immerse in 25℃ water,after thermal balance,immerse in 85℃,resistance arrives 63.2%,calculate total time	<10 sec
High temperature storage	IEC60068-2-2	Temp:125℃±5℃ Time: 1000±24Hour	No obvious damage, R25 △R/R≤±1%
Cold and thermal shock	IEC60068-2-14	-40℃~+125℃ T1:30min Cycle time:1000	No obvious damage, R25 △R/R≤±1%
Knock experiment	IEC60068-2-77	Acceleration:250m/s2 Pulse lasting: 6ms Knock times: 1000 Recovery time: 2 Hour	No obvious damage, R25 △R/R≤±1%
Low temperature storage	IEC60068-2-1	Temp: 40±2℃ Time: 1000±24Hour	No obvious damage, R25 △R/R≤±1%
Salt spray	IEC60068-2-11	Temp: 35±2℃ Collection hour : 1.0mL~2.0mL Time: determine per as actual demand	No obvious damage, R25 △R/R≤±1%

Materials:

Type: Diode type thermistor, Chip in glass type thermistor, Epoxy coated thermistor
Accuracy: ±2%, ±1% etc.
The thermistor divided into R value and B value. R value is 2K, 5K, 10K, 50K etc.,
B value is 3950K, 3470K, 3435K, 3977K etc.

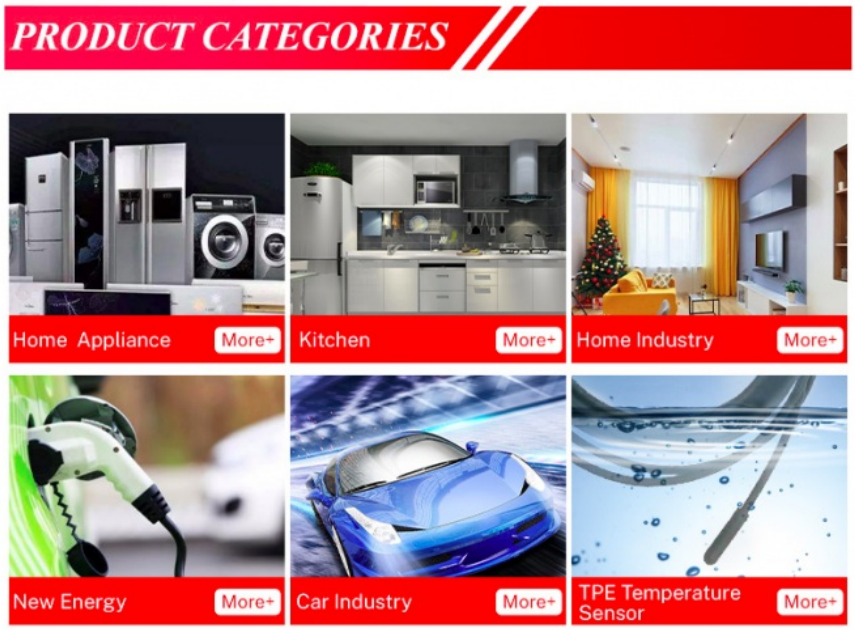
ABS, stainless steel, Nickel-plated copper, Plastic head, can be waterproof effect.
Support for customization.

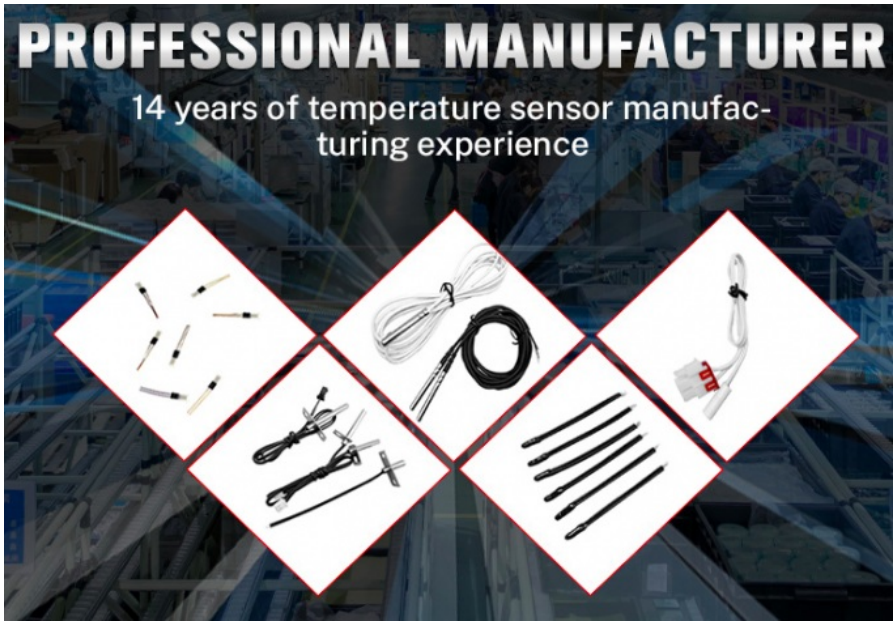


White Flat protective cable, PVC protective cable, TPE, Flat cable, silicone etc.
Support for customization.

Working principle of temperature sensor

Using the NTC thermistor under a certain measurement power, the resistance value drops rapidly as the temperature rises. Utilizing this feature, the NTC thermistor can be used to determine the corresponding temperature by measuring its resistance value, so as to achieve the purpose of detecting and controlling the temperature.





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