



## OEM Electronic NTC Temperature Sensor High Stability For Freezer

Our Product Introduction

### Basic Information

- Place of Origin: Dongguan China
- Brand Name: linkun
- Certification: CE / ROHS / UL / TUV / SGS
- Model Number: NTC 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

- Features: Fast Response
- Application: Electronic Product
- Type: Thermistor
- Working Temperature Range(°C): -10 To +105c
- Resistance Value: 5K, 10K, 20K, 50K, 100K
- Dissipation Factor(mw/°C): 1-2 (in Still Air)
- Highlight: **OEM NTC Temperature Sensor, Electronic NTC Temperature Sensor, Freezer Temperature NTC Sensor**

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## Product Description

### OEM Fast Response NTC Temperature Sensor Has Good Insulation And Sealing CQC

We have the unique process and leader core technology with proprietary intellectual property rights of ceramic powder equipment, made of chips, high performance NTC Automatic batch production.

We have more than 12 series of high performance NTC thermistors automatic production line, products have the advantages of large production, high quality, good coherence, high reliability, besides it can be made of many kinds of NTC temperature sensors, it also can be supplied to other factories of NTC sensors, and exported in large quantities to overseas.

#### Advantages

We have the heart of NTC temperature sensor--full sets of production line and core technology of pro-prietary intellectual property rights for high performance temperature measurement NTC thermistor.

We have all kinds of NTC core element of NTC Temperature sensor--high performance temperature measurement thermistors are own production, complete series, structural diversity. Our products can meet the requirements of precision measurement in different temperature area from low temperature, medium and low temperature to medium-high temperature. These products have passed many safety certifications of domestic and foreign.

Resistance and temperature characteristics can meet customer's requirements entirely, and support best convenience to customers.

Mature manufacturing technique of NTC temperature sensor, Large-scale mass production, product have the best ability of insulation sealing, Mechanical collision, resistance to bending, well-set.

Small thermal time, fast response

Multi category, complete series, many kinds of housing he configuration, easy to assemble

We have high level inspection equipments which carry out strict and normative inspection process.

Type	NTC(thermistor) Temperature Sensor
Temperature range	-50 ~ +300 Customized
Accuracy	1% 5% 10%
RT(25 )	1K 2K 2.2k 2.7k 3K 5K 7K 8K 12K 15K 20K 25K 30K 40K 47K 50K 60K 70K 100K 200K 230K 250K 470K 500K 1000K Customized
B value	3274 3435 3470 3928 3950 3977 4100 4200 4400 Customized
Probe Material	Stainless steel SS304 aluminum copper plastic epoxy glass
Installation	Flanged Surface Threaded Plastic Straight Film Customized
Wire Material	Heat shrinkable tube PVC tube glass fiber tube tube
Connector	Molex JST DuPont CWB CJT U type Customized
Waterproof	IP67 IP68

#### 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.

#### Application

- Air conditioners, refrigerators, freezers, water heaters, water dispensers, heaters, dishwashers, disinfection cabinets, washing machines, dryers and other home appliances.
- Automobile air conditioner, water temperature sensor, intake air temperature sensor, engine
- Switching power supply, UPS uninterruptible power supply, frequency converter, electric boiler, etc.
- Intelligent toilet, electric blanket, etc.



Flanged ntc temp sensor



Surface ntc temp sensor



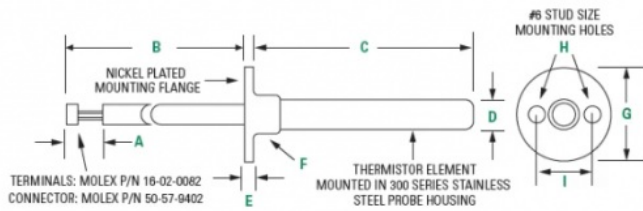
Threaded ntc temp sensor

#### Working principle of temperature sensor

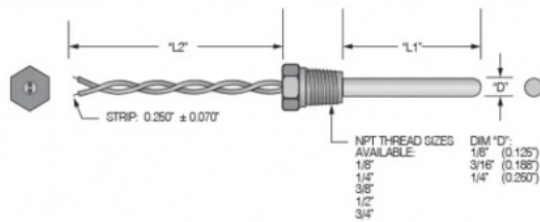
Using the NTC thermistor under a certain measurement power, the resistance value drops rapidly as the temperature rises.

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.

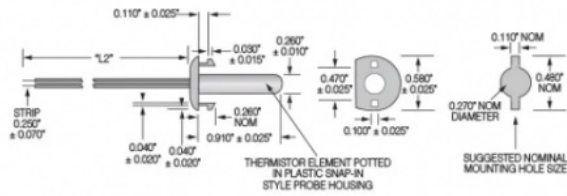
## Flanged Probes



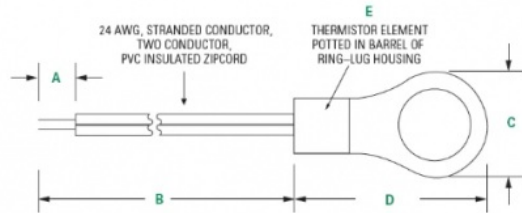
## Threaded Probes



## Special Probes: Customized according to purpose



## Surface Probes

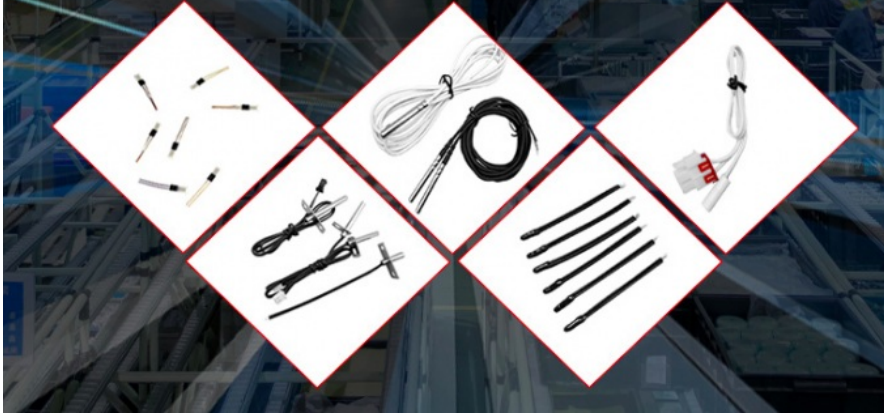


## Reliability Test

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	IEC60 539-1	Immerse samples in the constant temperature bath at 25 ,50 (or 85 ) , test steady resistance,and calculate B value	Resistance tol ±1%
Free fall	IEC60 068-2-32	Fall height: 1.5±0.1m, Surface: Cement , 1 time	No obvious damage, R25 ΔR/R≤±1%
Insulation	IEC60 539-1	500V pressure on insulation shell test insulation resistance	>500MOhm
Withstand voltage	IEC60 539-1	Withstand voltage: 1500V/AC ,Leakage current:2mA Lasting: 60sec	No obvious damage
Tension	IEC60 068-2-21	Pull uniform speed at the end, F>4.0KG(requested by customer)	No obvious damage, R25 ΔR/R≤±1%
Vibration	Q/HB m 108-94	Test frequency: 10~500Hz,swing: 1.2mm acceleration: 30m/s <sup>2</sup> Direction X,Y,Z Time:8Hour/direction	No obvious damage, R25 ΔR/R≤±1%
Steady humidity and heat	IEC60 068-2-78	Temp:40±2 Humidity:92-95%RH Time:1000±24Hour	No obvious damage, R25 ΔR/R≤±1%
Thermal time constant	EC605 39-1	Immerse in 25 water,after thermal balance,immerse in 85 ,resistance arrives 63.2%,calculate total time	<10 sec
High temperature storage	IEC60 068-2-2	Temp:125 ±5 Time: 1000±24Hour	No obvious damage, R25 ΔR/R≤±1%
Cold and thermal shock	IEC60 068-2-14	-40 ~+125 T1:30min Cycle time:1000	No obvious damage, R25 ΔR/R≤±1%
Knock experiment	IEC60 068-2-77	Acceleration:250m/s <sup>2</sup> Pulse lasting: 6ms Knock times: 1000 Recovery time: 2 Hour	No obvious damage, R25 ΔR/R≤±1%
Low temperature storage	IEC60 068-2-1	Temp: 40±2 Time: 1000±24Hour	No obvious damage, R25 ΔR/R≤±1%
Salt spray	IEC60 068-2-11	Temp: 35±2 Collection hour : 1.0mL~2.0mL Time: determine per as actual demand	No obvious damage, R25 ΔR/R≤±1%

# PROFESSIONAL MANUFACTURER

14 years of temperature sensor manufacturing experience



## Application



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