



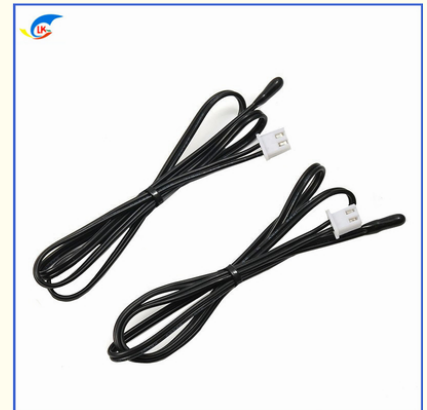
Instruments Household Appliances Nuanshuibao Special NTC Thermistor 10K 50K 100K 1% High Precision 3-5mm Line Length

Our Product Introduction

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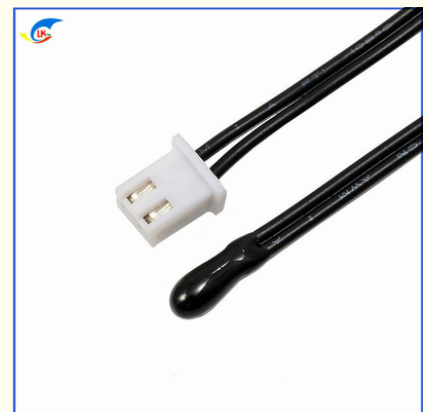
Basic Information

- Place of Origin: Dongguan China
- Brand Name: linkun
- Certification: CE / ROHS / UL / TUV / SGS
- Model Number: Vehicle 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: Adopt Double-Layer Sealing Process
- Application: Vehicle
- 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: **Wireless Vehicle Temperature Sensor, Durable Vehicle Temperature Sensor, Double Layer Wireless Waterproof Temperature Sensor**



More Images



Product Description

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► Design considerations and procedure of temperature sensor

1. Choose the shape according to customer's design or assemble requirements, and confirm the thermistor.
2. Confirm the thermistor element and other materials according to customers' requirement
3. Choose the suitable resistance, B value and tolerance
4. Choose suitable moisture-proof and insulation technology to meet customer's requirement
5. Choose suitable encapsulation structure to meet performance requirements of mechanical shock resistance
6. Meet customer's special requirements.

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.

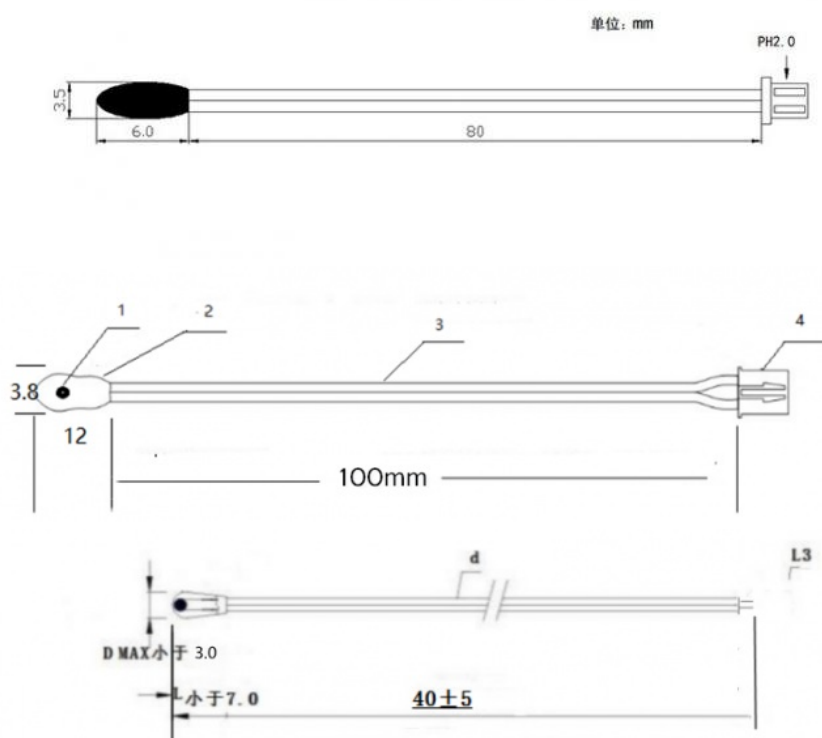
Resistance and temperature characteristics can meet customer's requirements entirely, and support best convenience to customers.

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 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°C ~ +300°C Customized
Accuracy	1% 5% 10%
RT(25°C)	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

Material, type and size:

Thermistors are bulk semiconductor devices and as such can be manufactured in a variety of forms. More common ones include discs, beads and rods. Sizes do vary from 1mm beads to discs a few centimeters in diameter and thickness. There are different types of thermistors, most of which respond differently to changes in temperature. Thermistors are not linear and their response curves vary from type to type. Some thermistors have a nearly linear temperature-resistance relationship, others have a sharp change in slope (sensitivity) at a specific characteristic temperature.

Main Technology Parameters

Part number	Rated resistance R25		B value (25/50)		Dissipation Coefficient.	Thermal time constant	Operating temperature
	Range KOhm	Tolerance %	(K)	Tolerance %	Mw/°C	sec	°C
CWF□□□ 3100	0.1~20	±1 ±2 ±3 ±5	3100	±1	≥2.2	≤70	-55~+125
CWF□□□ 3270	0.2~20		3270				
CWF□□□ 3380	0.5~50		3380				
CWF□□□ 3470	0.5~50		3470				
CWF□□□ 3600	1~100		3600				
CWF□□□ 3950	5~100		3950				
CWF□□□ 4000	5~100		4000				
CWF□□□ 4050	5~200		4050				
CWF□□□ 4150	10~250		4150				
CWF□□□ 4300	20~1000		4300				
CWF□□□ 4500	20~1000		4500				

NCT temperature sensor application range

- ◆ Heating and heating air conditioners and related equipment
- ◆ Household appliances of various sizes: air conditioners, refrigerators, battery stoves, bread ovens, baking ovens, electric ovens, microwave ovens, electric fans, soybean milk machines, electric water heaters, electric rice cookers, disinfection cabinets, water dispensers, heaters, electric irons, disinfection Cabinets, drinking fountains, lighting appliances, etc.
- ◆ Temperature measurement and control circuits for agricultural, medical, environmental protection, meteorological, food processing and other equipment
- ◆ Instrument coils, automotive circuits, integrated circuit modules, transistor amplifier circuits, temperature compensation circuits such as quartz crystal oscillators and thermocouples



Flanged ntc temp sensor



Surface ntc temp sensor

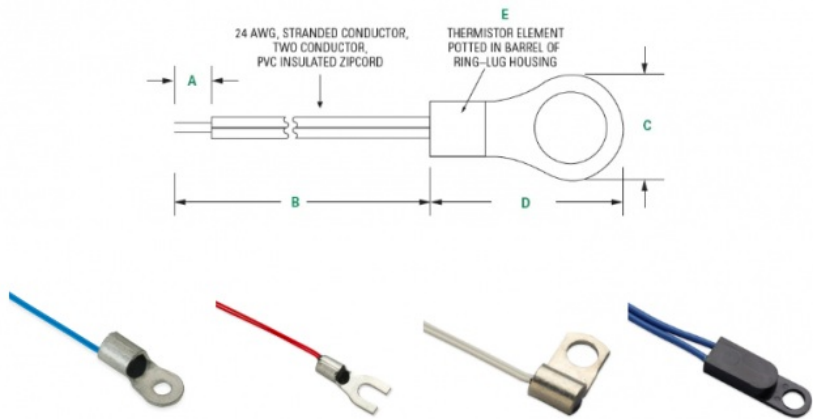


Threaded ntc temp sensor

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.

Surface Probes



Conventional product electrical performance parameters

Part No.	R25°C (KΩ)	B(K) 25/50°C	Rated Power @25°C(mW)	Dissipation Factor(δ) (mW/°C)	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

PROFESSIONAL MANUFACTURER

14 years of temperature sensor manufacturing experience

Application



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