5*25 Tubular Thermistor Sensor 5K 10K 50K 100KF3950 Suitable For Temperature Control Module, Digital Temperature, Instru

Our Product Introduction

Basic Information

- Place of Origin: Dongguan China
- Brand Name: linkun
- Certification: CE / ROHS / UL / TUV / SGS / CQC
- Model Number: Medical 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: Medical Machine
- Keywords: Temperature Sensor
- 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 Thermistor Probe**, **Medical NTC Thermistor Probe**, **5K Temperature Sensor For Medical Application**

More Images

Our Product Introduction

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Product Description

OEM Medical Temperature Sensor Has Good Insulation Sealing And Mechanical Impact Resistance

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

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Dongguan Linkun Electronic Technology Co., Ltd.

Main technical parameters of sensor series thermistor:

Model	Rated resistance value (R25)	B value		Operating temperature	Dissipation coefficient	Thermal time constant
	Resistance value (KΩ)	Allowable deviation (±%)	Nominal value (K)		(mW/℃)	(S)
CWF-102-3435	1	±1% ±2% ±3% ±5%	3435	-40℃ 120℃	≥3.0 in still air	≤6.0 in still air
CWF-202-3435	2		3435			
CWF-2.252-3950	2.252		3950			
CWF-472-3950	4.7		3950			
CWF-502-3470	5		3470			
CWF-502-3950	5		3950			
CWF-682-3950	6.8		3950			
CWF-103-3435	10		3435			
CWF-103-3470	10		3470			
CWF-103-3600	10		3600			
CWF-103-3380	10		3380			
CWF-103-3977	10		3977			
CWF-103-4100	10		4100			
CWF-153-3950	15		3950			
CWF-203-3950	20		3950			
CWF-233-3950	23		3950			
CWF-303-3950	30		3950			
CWF-333-3977	33		3977			
CWF-403-3950	40		3950			
CWF-473-4013	47		4013			
CWF-503-3977	50		3977			
CWF-503-3990	50		3990			
CWF-503-4050	50		4050			

CWF-104-3950	100		3950			
CWF-104-3990	100		3990			
CWF-104-4200	100		4200			
CWF-204-3892	200		3892			
CWF-204-3917	200		3917			

NTC temperature sensors are usually composed of 2 or 3 metal oxides, mixed in a fluid-like clay, and calcined into a dense sintered ceramic in a high-temperature furnace. Oxygen-bonded metals tend to donate free electrons. Ceramics are generally excellent insulators. But only theoretically, this is the case for thermistor-type ceramics when the temperature approaches absolute zero. However, as the temperature increases to more common ranges, thermal excitations eject more and more free electrons. As more electrons carry current through the ceramic, the effective resistance decreases. Resistance changes very sensitively with temperature. A typical change is a decrease of (-)7[%] to 3[%] per degree Celsius. This is the most sensitive of any sensor suitable for use over a wide temperature range.

Type	NTC(thermistor) Temperature Sensor
Temperature range	-50℃ ~ +300℃ Customized
Accurancy	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

The main technical parameters:

1. The rated zero-power resistance value R25 refers to the zero-power resistance value of the thermistor measured at 25°C.
2. B value; defined as the ratio of the difference of the natural logarithm of the zero-power resistance value at two temperatures to the difference between the two temperatures.
3. Thermal time constant; under zero power conditions, when the temperature changes suddenly, the time required for the temperature of the thermistor body to change by 63.2% of the temperature difference between the beginning and the end.
4. Dissipation coefficient; at a specified ambient temperature, the ratio of the change in power dissipation of the thermistor to its corresponding temperature change.

NCT temperature sensor application range

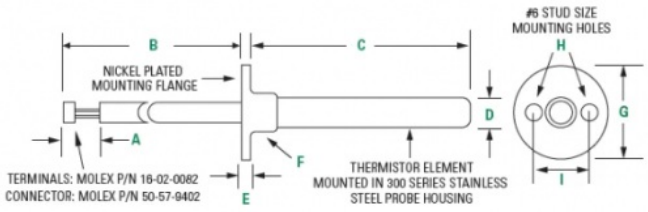
♦ Heating and heating air conditioners and related equipment
♦ Household appliances of various sizes: air conditioners, refrigerators, battery stoves, bread ovens, baking ovens, electric ovens, microwave ovens, electric fans, soybean milk machines, electric water heaters, electric rice cookers, disinfection 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

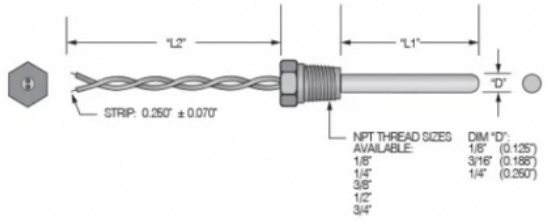
Working principle of temperature sensor

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.

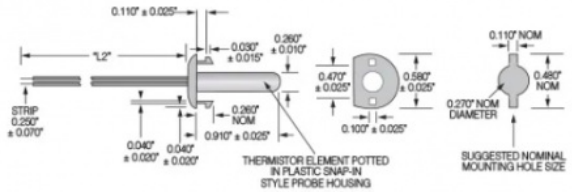
Flanged Probes



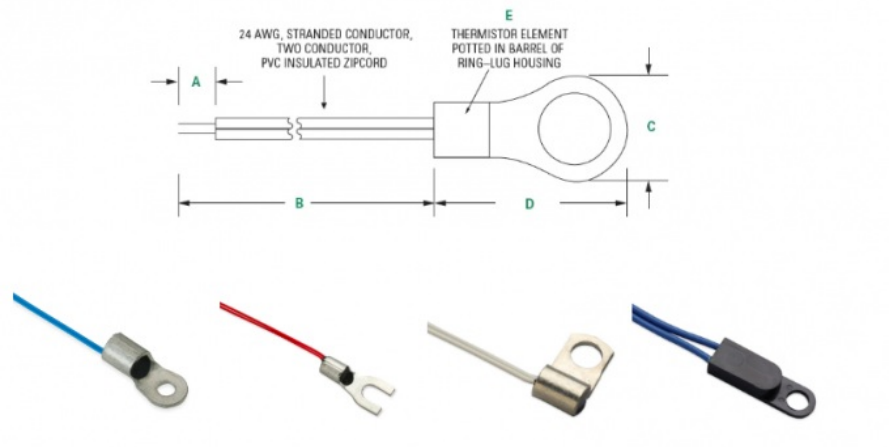
Threaded Probes



Special Probes: Customized according to purpose

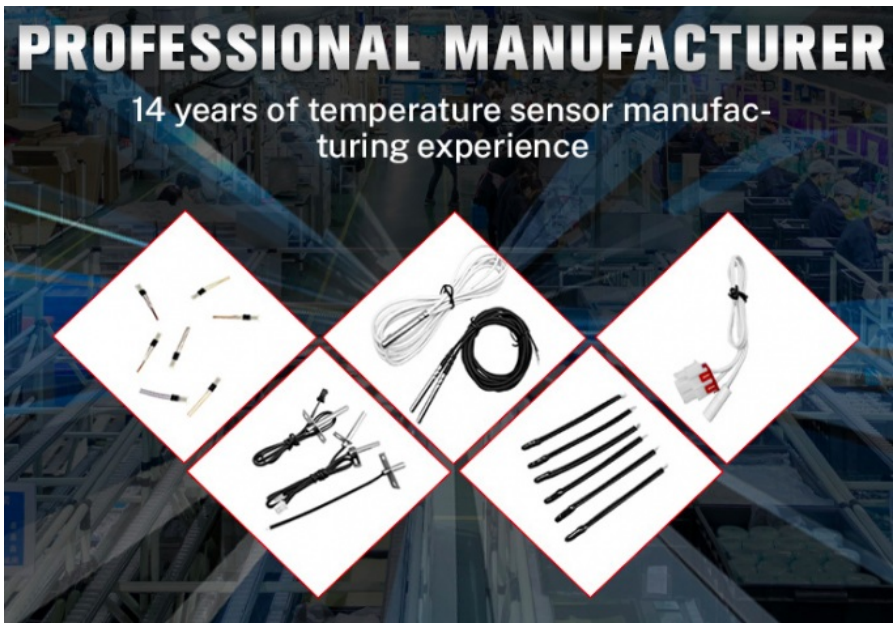


Surface Probes

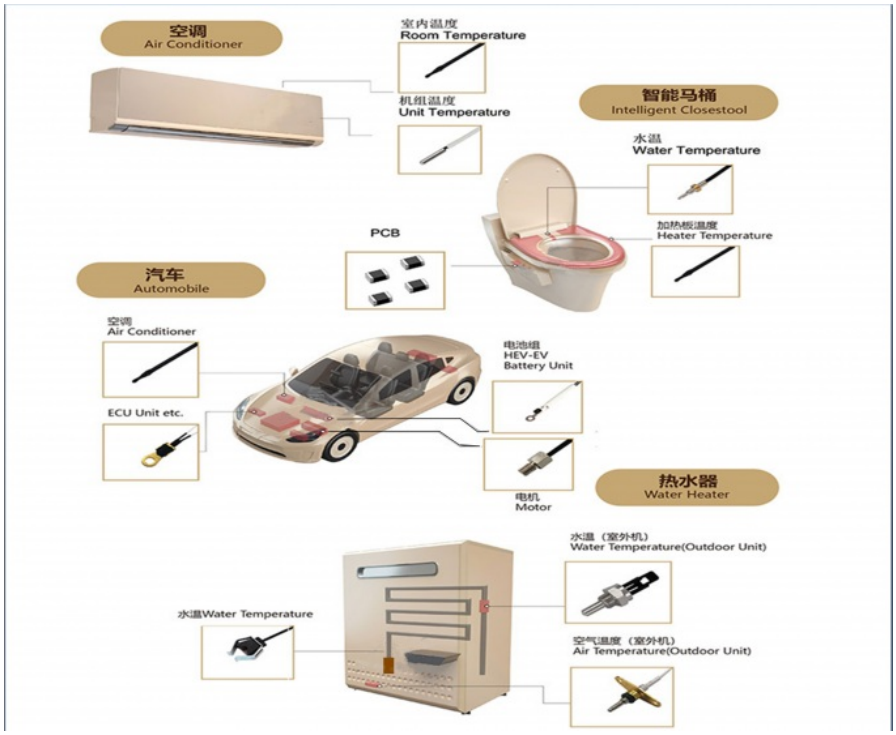


Conventional product electrical performance parameters

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



Application



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