



Refrigerator Air Conditioner Special Temperature Control Probe NTC10k 3435 Thermistor Temperature Sensor Temperature

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: LINKUN
- Certification: RoHS UL
- Model Number: Temperature Sensor
- Minimum Order Quantity: 50PCS
- Price: US \$0.2 ~ 0.6 PCS
- Packaging Details: 1000PCS/Bag
- Delivery Time: 5-7 days
- Supply Ability: 100,000 pieces/month



Product Specification

- Series: Temperature Sensor
- Sensor Type: Temperature Sensor
- Temperature Range: -40+120°C
- Accuracy: $\pm 1\%$
- Operating Temperature: 100 °C
- Package/housing: ABS
- Material: Customized
- Application Area: Smart Home
- Highlight: **NTC10k Temperature Sensor,
3435 Thermistor Temperature Sensor,
Refrigerator Air Conditioner Temperature
Sensor**



More Images



Product Description

Working Principle Of The In-car Temperature Sensor

The working principle of the outside temperature sensor is the same as that of the inside temperature sensor. Sensors outside the car are generally installed in the front bumper or before the radiator, and are easily affected by the environment, so they are wrapped in an injection-molded resin case to avoid responding to sudden changes in temperature. This will enable it to accurately detect the average temperature outside the car. In addition, some models have anti-fake input circuits inside the air-conditioning computer

Input element of automatic air conditioner

① The temperature sensor inside and outside the car: It is a negative temperature coefficient thermistor sensor, used to sense the temperature inside and outside the car. When the temperature changes, the resistance changes, and the temperature signal is sent to the air-conditioning electronic control unit ECU.

② Evaporator temperature sensor: It detects the temperature of the air passing through the evaporator or the temperature change on the surface of the evaporator, and controls the coupling or disconnection of the electromagnetic clutch of the compressor. The signal is sent to the electronic control unit (ECU) to control the fan speed at low temperatures.

Features Of The In-car Temperature Sensor

Application description Measure the temperature change of the air conditioner;

[Assembly method] The wiring harness is tied and fixed.

- The temperature control response speed is fast.
- Good moisture and water resistance.
- The assembly method is simple and firm.

ABOUT THE CUSTOM

Temperature sensor customization can be roughly divided into: resistance, processing (tinning or connector connection)

1. Customized according to customer needs, common types refer to the following composition categories

Composition category	1	2	3	4
Resistor	NTC thermistor	PT1000/PT100 platinum resistor	DS18B20	Thermocouple
Package shell Stainless	steel shell (304, 316)	Nickel-plated copper shell	ABS shell	Injection molded shell
Wire parameters	Stainless steel mesh braided wire	Silicone wire/PVC wire	Glass fiber mica wire	Teflon wire
Tail connection	2.5/3.5mm headphone audio plug	Connector (customized on demand)	Plug terminal	Bare wire tinning

2. Specific parameters are as follows

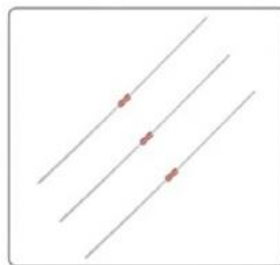
Type name	Resistance parameters	Accuracy	Specification model	Temperature range
NTC thermistor (R value)	5k, 10K, 50K, 100K	1%, 2%, 3%, 5%	MF52, MF58	-30°C~300°C
NTC thermistor (B value)	3435, 3470, 3950, 3970, 3977			
Platinum resistor	PT100/PT1000	Grade A, Grade B	/	-50°C~500°C
DS18B20	DS18B20	±0.5%	/	-50°C~125°C
Thermocouple	K type	Grade 1, Grade 2	/	-50°C~600°C
Wire	/	/	AWG18/20/22/24/26/28	105°C~500°C



Customization process



Epoxy Resistors



Diode



Enameled wire



Small black head small leather wire



Single-ended glass sealed



Thin film resistor



Dongguan Linkun Electronic Technology Co., Ltd.



13423305709



huangju@lk-ptc.com



lk-thermistor.com

Room 101, No. 21, Huayuanzai Road, Chongmei, Chashan Town, Dongguan City, Guangdong Province