3M K-Type Thermocouple Temperature Sensor Probe 100mm -100°C To 1250°C Range

Our Product Introduction

Basic Information

- Place of Origin: Dongguan,Guangdong,China
- Brand Name: LINKUN
- Certification: CCC RoHS
- Model Number: K-type thermocouple
- Minimum Order Quantity: Negotiation
- Price: Negotiation
- Packaging Details: Packed in OPP Bag firstly,and then reinforced with Cartons for outer packing
- Delivery Time: 5-15work days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 10000 PCS

Product Specification

- Product Name: K-Type Thermocouple Temperature Sensor
- Color: Silver Brass
- Accuracy: A=±0.15℃ / B=±0.3℃ C =±0.6℃
- Probe Length: 50mm, 100mm, 150mm
- Probe Diameter: 5mm(2mm-6mm)
- Resistor Lead: Insulated With Tube
- Probe Material: SS304(Default)
- Measuring Range: -50~1250C
- Sample: Available
- Lead Material: Tinned Copper
- High Accuracy Tolerances: ±0.1℃
- Nominal Resistance: 100Ωat 0℃

More Images

Our Product Introduction

for more products please visit us on lk-thermistor.com

Product Description

Product Description:

Composition and Product Features of K-type Thermocouple Wire

K-type thermocouple wire is composed of two different metals (usually copper and nickel) that form a thermocouple weld at the connection point. When the weld is at different temperatures, a thermoelectric potential difference is generated between the metals. We can determine the change in temperature by measuring this thermoelectric potential difference. K-type thermocouple wire is ideal for measuring high temperature ranges because of its stability in high temperature environments.

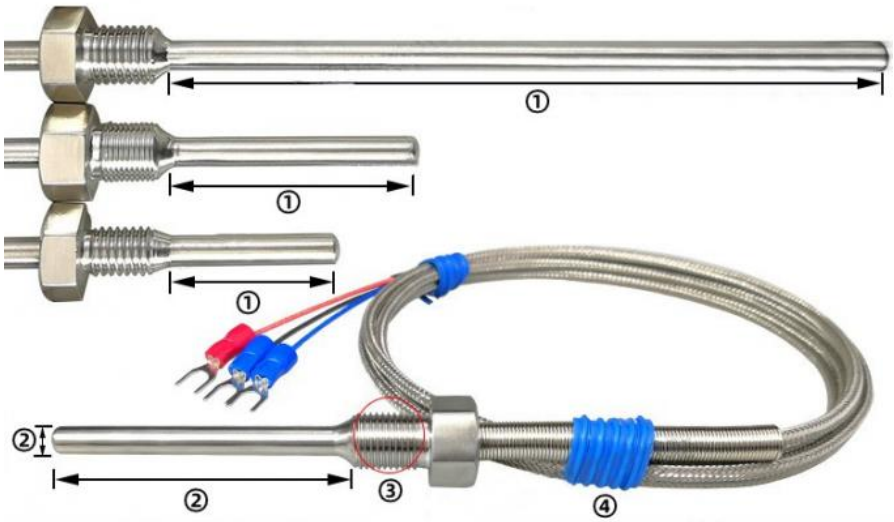
K-type thermocouple wire can measure temperatures from -200°C to +1350°C and is suitable for a variety of applications that require high temperature measurement. K-type thermocouple wire can provide accurate and reliable temperature data, whether it is high temperature process control or measurement in high temperature environments such as metal smelting.

In practical applications, measurement errors will occur due to the unstable temperature of the cold end where the thermocouple wire is connected to the measuring device. K-type thermocouple wire can reduce errors through the cold end compensation circuit. This design enables K-type thermocouple wire to accurately measure temperature when transmitting signals over long distances, greatly improving its reliability and accuracy.

In some industrial production processes such as high-temperature furnace steelmaking and high-temperature reactions in chemical production, the environment in which the thermocouple is located often contains harmful gases or oxidizing conditions. This environment places high demands on the stability and life of the sensor. K-type thermocouple wire is made of high-temperature resistant and corrosion-resistant materials, which can better adapt to these harsh environments and maintain long-term stable operation.

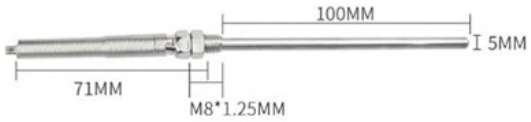
K-type thermocouple wire is very sensitive to temperature changes due to its unique metal combination and structural design. This allows it to accurately sense temperature changes and respond quickly. The fast response capability of K-type thermocouple wire can meet the needs, whether it is temperature regulation in process control or precision measurement in the laboratory.

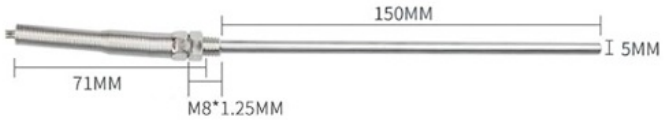
Selection requirements



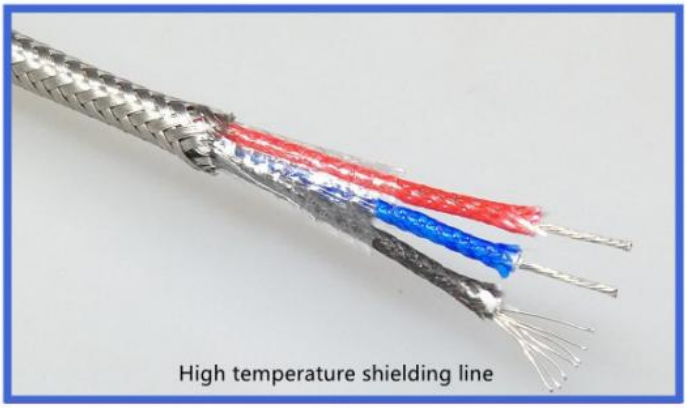
Customized products need to tell us the following parameters

①. Probe diameter ②. Probe length ③. Thread size ④. Wire length ⑤. Graduation number ⑥ Temperature measurement range

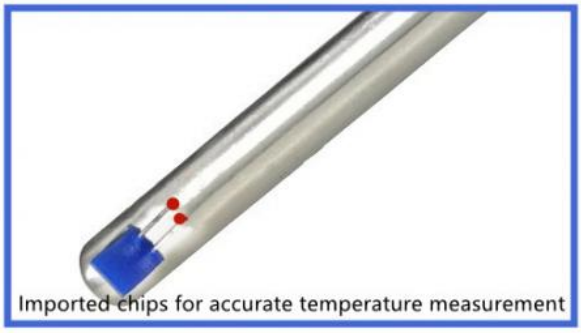


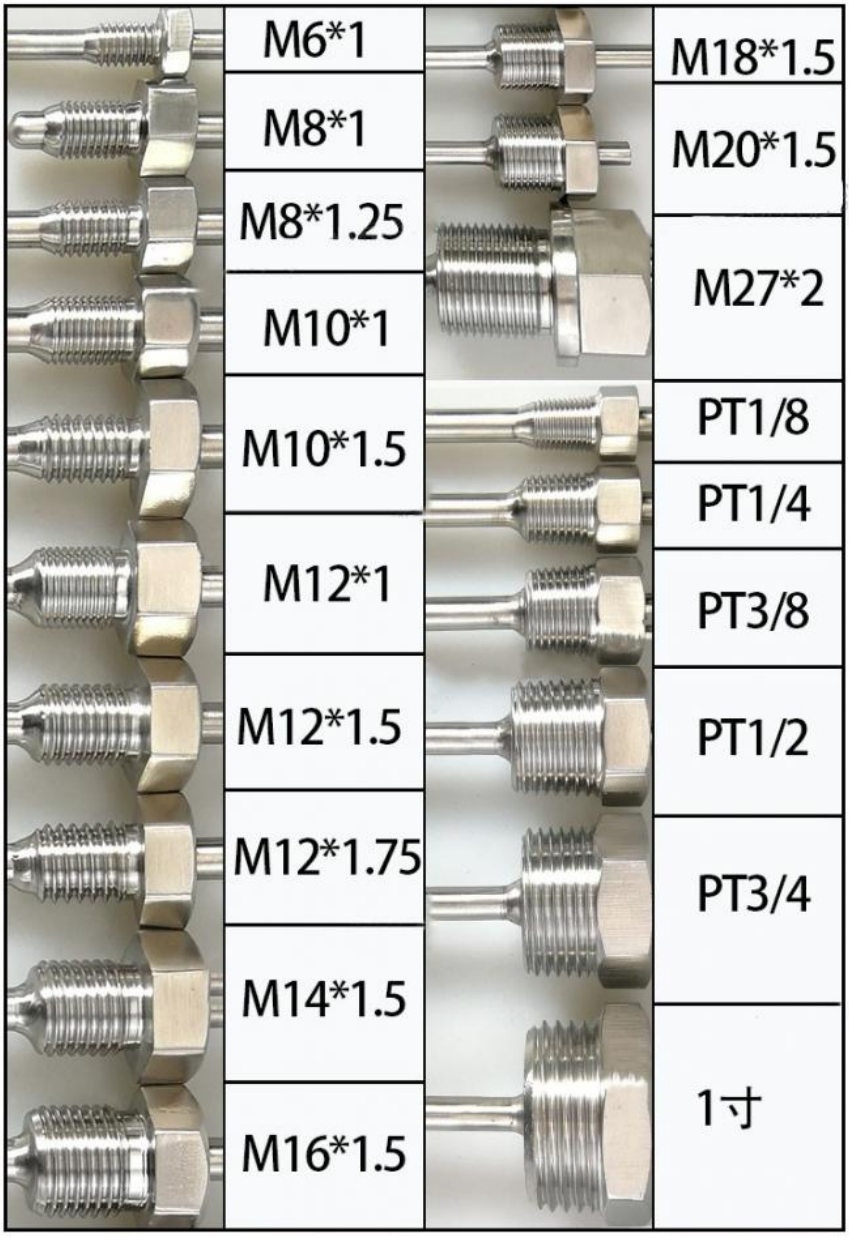


Wire display


High temperature shielding line


Thread welding seal waterproof


Imported chips for accurate temperature measurement


M6*1
M8*1
M8*1.25
M10*1
M10*1.5
M12*1
M12*1.5
M12*1.75
M14*1.5
M16*1.5
M18*1.5
M20*1.5
M27*2
PT1/8
PT1/4
PT3/8
PT1/2
PT3/4
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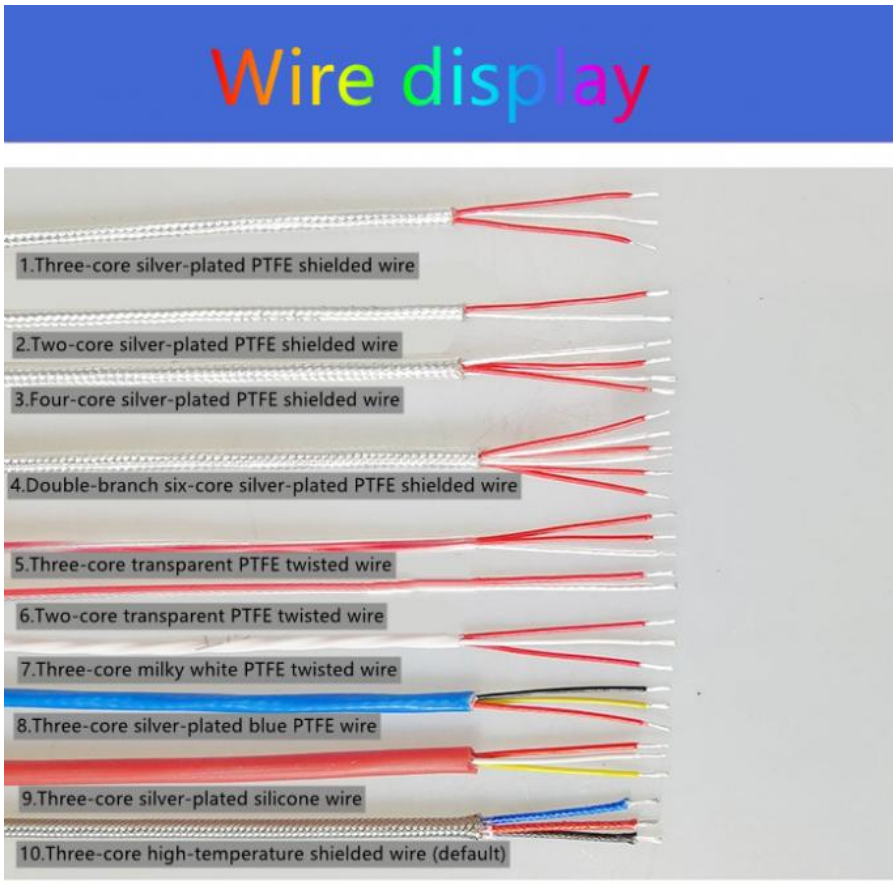

Multi-product display:

Features:

NTC Temperature Sensor
Assembly: Insert Hole Or Lock
Operating Voltage: 3.3V To 5V
Measuring The Dielectric: Temperature
B Tolerance: 1%, 2%, 3%, 5%
Terminals: Brass Tin Plated

Technical Parameters:

Assembly	Insert Hole Or Lock
Measuring The Dielectric	Temperature
Spectrum Peaknm	560
Max Power Consumptionmw	100nmw
Power	+3.0V -5.5V
Operating Current	1mA
Operating Voltage	3.3V To 5V
Connector	PH-2Y
Terminals	Brass Tin Plated
Wire	PVC, Teflon, Enamel Insulation

Applications:

NTC Sensor, NTC Sensor, NTC Sensor
The LINKUN PT100 Temperature Sensor is a versatile product designed for a wide range of applications and scenarios. With its high-quality construction and precise temperature sensing capabilities, this sensor is suitable for various industries and environments. Whether you need to monitor temperature in industrial machinery, HVAC systems, or laboratory equipment, the LINKUN PT100 Temperature Sensor offers reliable and accurate performance. Its Place of Origin in Dongguan, Guangdong, China ensures that it meets stringent quality standards.
The sensor is designed for easy installation, with a simple inserting method that allows for quick and hassle-free setup. It can be easily assembled using an insert hole or lock, making it suitable for a variety of mounting options.
With its durable PVC, Teflon, or enamel insulation wire options, the sensor can withstand harsh environmental conditions and provide long-lasting performance. The XLPE black cable further enhances its durability and ensures secure connections.

Thanks to its wide storage temperature range of -55°C to 150°C, the LINKUN PT100 Temperature Sensor can be used in both low and high-temperature environments without compromising its accuracy. Whether you need to monitor extreme cold or heat, this sensor has you covered.
Overall, the LINKUN PT100 Temperature Sensor is a reliable and versatile product that can meet the temperature sensing needs of various industries and applications. Its high-quality construction, easy installation, and wide temperature range make it a valuable asset for any temperature monitoring system.

Customization:

Customize your NTC Sensor with LINKUN's Product Customization Services:
Brand Name: LINKUN
Model Number: PT100 Temperature Sensor
Place of Origin: Dongguan, Guangdong, China
Operating Voltage: 3.3V To 5V
Max Power Consumptionmw: 100nmw
Power: +3.0V -5.5V
Terminals: Brass Tin Plated
Operating Current: 1mA

Support and Services:

Product Technical Support and Services:
- Assistance with product installation and setup - Troubleshooting of technical issues related to the NTC Temperature Sensor - Guidance on product maintenance and care - Information on product specifications and compatibility - Software updates and firmware support - Warranty information and claims process

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