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Fafeicy WRNT-187

Fafeicy K Type Thermocouple Temperature Sensor User Manual

Model: WRNT-187

Brand: Fafeicy

1. Product Overview

The Fafeicy K Type Thermocouple is a high-precision temperature sensor designed for accurate temperature measurement in various industrial and scientific applications. It features a durable stainless steel probe and a high-accuracy sensor chip, making it an ideal accessory for temperature control equipment.

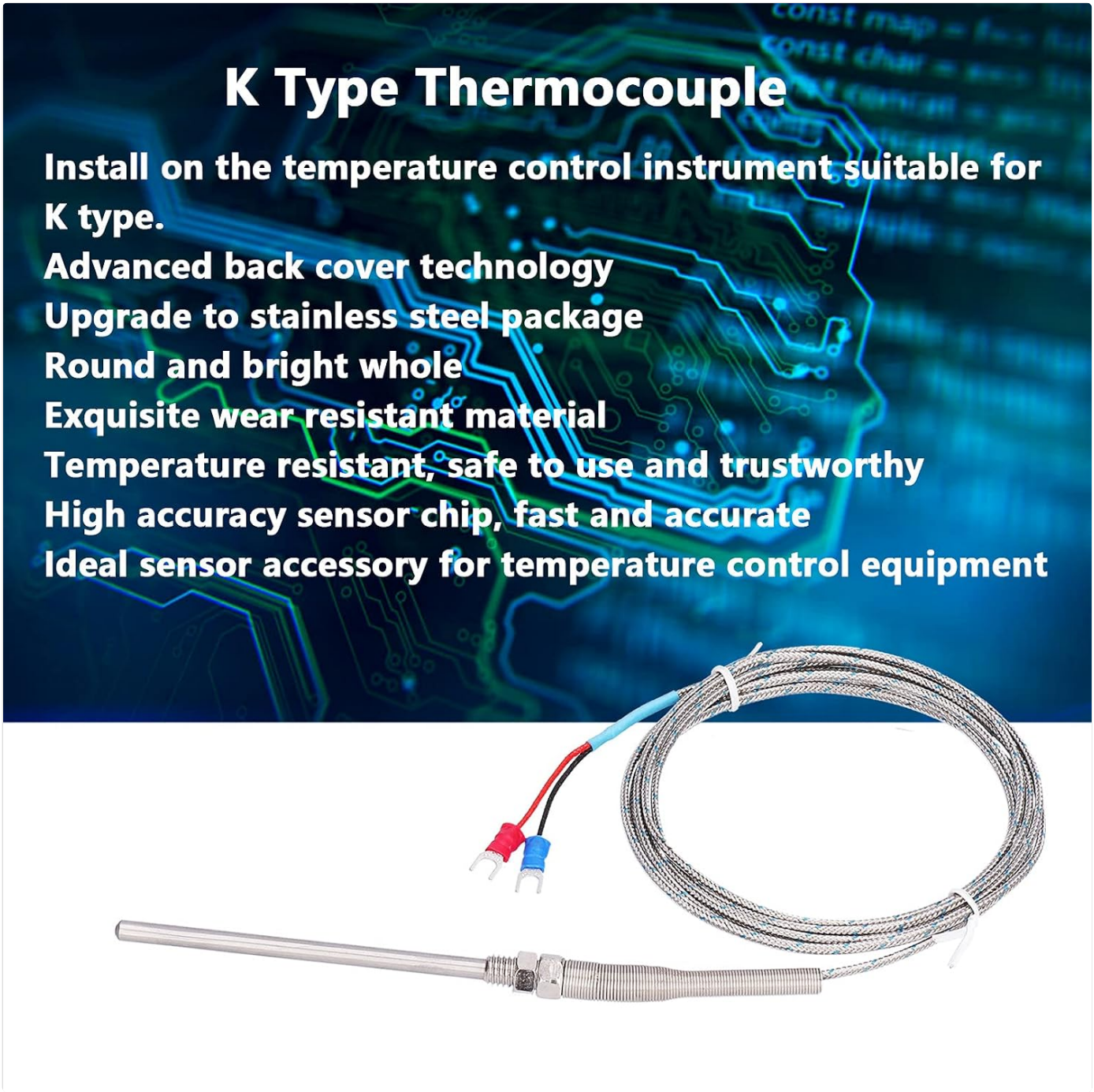


Image 1.1: The Fafeicy K Type Thermocouple, illustrating its key features such as the stainless steel package and high-accuracy sensor chip.

Key Features:

- **High-Precision Sensor Chip:** Ensures fast and accurate temperature readings.
- **Durable Stainless Steel Package:** Upgraded design for enhanced durability and resistance.
- **Wide Temperature Range:** Capable of measuring temperatures from 0 to 600°C.
- **Standard K Type:** Compatible with temperature control instruments suitable for K type thermocouples.

2. Safety Information

Important Safety Note:

- Do not use this thermocouple in temperatures exceeding 600°C (1112°F). Exceeding this limit can damage the sensor and lead to inaccurate readings or failure.

- Ensure proper insulation and connection to prevent electrical hazards.
- Handle the probe carefully to avoid bending or damaging the tip.

3. Package Contents

Verify that all items are present in the package:

- 1 x Fafeicy K Type Thermocouple (Model: WRNT-187)

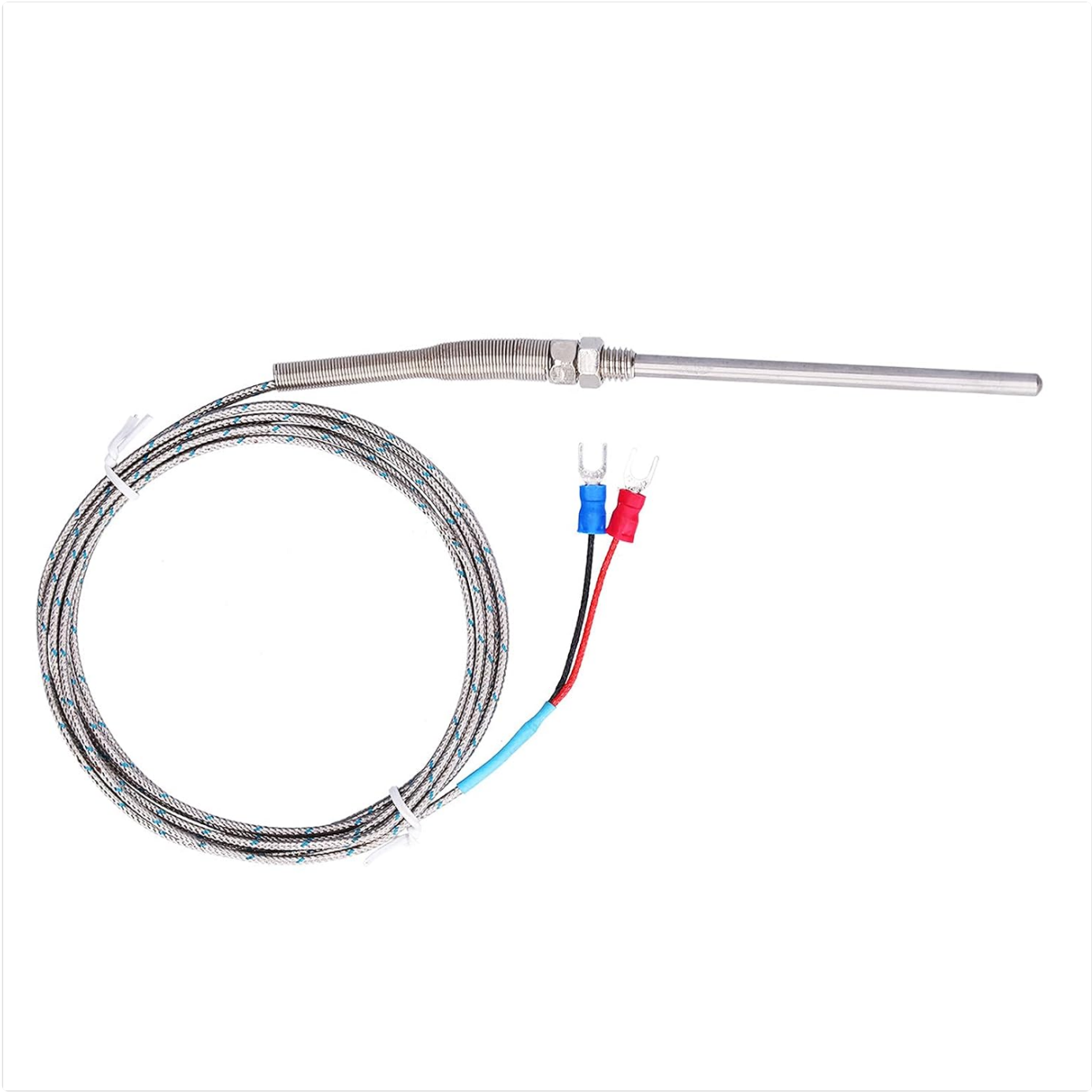


Image 3.1: The complete Fafeicy K Type Thermocouple as included in the package.

4. Setup and Installation

This K Type Thermocouple is designed for straightforward installation with compatible temperature control instruments.

1. **Identify Connection Points:** Locate the K type input terminals on your temperature control instrument. These are

typically labeled for positive (+) and negative (-) connections.

2. **Connect the Thermocouple:** The thermocouple features two spade connectors, typically red and blue/black. Connect the red spade connector to the positive (+) terminal and the blue/black spade connector to the negative (-) terminal of your instrument. Ensure a secure connection.



Image 4.1: Close-up view of the red and blue spade connectors, indicating the connection points.

3. **Insert the Probe:** Carefully insert the stainless steel probe into the environment or material where temperature measurement is required. Ensure the insertion depth is sufficient for accurate readings, considering the probe's 100mm (3.9in) insertion depth.



Image 4.2: Detail of the stainless steel probe and its threaded connection point.

4. **Secure the Probe (if applicable):** If your application requires, use the threaded section of the probe to secure it in place.

5. Operation

Once properly installed, the Fafeicy K Type Thermocouple will transmit temperature data to your connected K type temperature control instrument. Refer to your instrument's manual for specific instructions on reading and interpreting temperature values.

- Ensure the temperature being measured is within the sensor's operating range of 0-600°C.
- Monitor the readings on your temperature control instrument.
- Avoid exposing the sensor to sudden, extreme temperature changes that could affect its accuracy or lifespan.

6. Maintenance

The Fafeicy K Type Thermocouple is designed for durability and requires minimal maintenance.

- **Cleaning:** If necessary, gently wipe the stainless steel probe with a clean, dry cloth. Avoid using abrasive cleaners or solvents that could damage the material.
- **Inspection:** Periodically inspect the probe and cable for any signs of physical damage, such as bends, cuts, or frayed wiring. Replace the thermocouple if significant damage is observed.
- **Storage:** When not in use, store the thermocouple in a clean, dry environment, away from extreme temperatures and corrosive substances.

7. Troubleshooting

If you encounter issues with your K Type Thermocouple, consider the following common troubleshooting steps:

- **No Reading or Inaccurate Reading:**
  - Check all connections to the temperature control instrument. Ensure the red and blue/black spade connectors are securely attached to the correct positive (+) and negative (-) terminals.
  - Verify that the temperature control instrument is powered on and configured correctly for a K type thermocouple.
  - Ensure the probe is fully inserted into the measurement area and that the temperature is within the 0-600°C range.
  - Inspect the thermocouple cable and probe for any visible damage.
- **Fluctuating Readings:**
  - Check for any electromagnetic interference (EMI) near the thermocouple or its cable.
  - Ensure the probe is stable and not subject to rapid air currents or inconsistent contact with the measured medium.

If problems persist after attempting these steps, contact customer support for further assistance.

8. Specifications

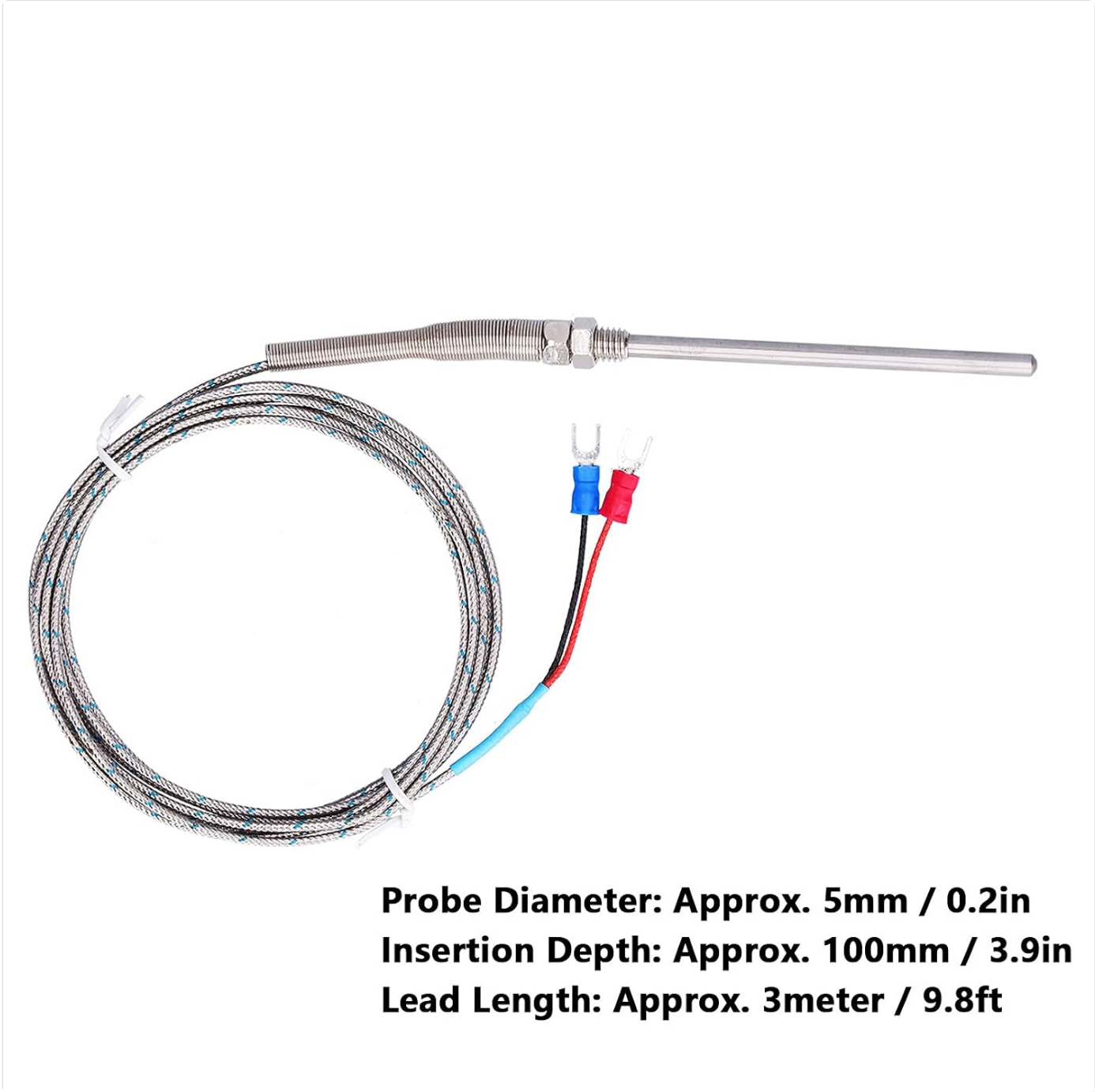


Image 8.1: Visual representation of the thermocouple's key dimensions.

Parameter	Value
Item Type	K Type Thermocouple
Model	WRNT-187
Material	Stainless Steel
Purpose	Temperature Sensor
Probe Diameter	Approx. 5mm / 0.2in
Insertion Depth	Approx. 100mm / 3.9in
Temperature Measuring Range	0-600°C
Lead Length	Approx. 3 meters / 9.8 feet

Parameter	Value
Manufacturer	Fafeicy
Package Dimensions	9.06 x 6.3 x 0.79 inches

9. Customer Support

For any questions, concerns, or technical assistance regarding your Fafeicy K Type Thermocouple, please contact our customer support team. We are committed to providing prompt and helpful solutions.
You can typically find contact information on the product packaging or through the retailer's website where the product was purchased.

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