



Manuals.plus /

› ZAWELIYO /

› ZAWELIYO K Type Temperature Sensor Probe Instruction Manual

**ZAWELIYO ZAWELIYOqvxzm6c7ra**

# ZAWELIYO K Type Temperature Sensor Probe Instruction Manual

Model: ZAWELIYOqvxzm6c7ra

## 1. PRODUCT OVERVIEW

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The ZAWELIYO K Type Temperature Sensor Probe is designed for accurate and reliable temperature measurement in various industrial applications. This thermocouple features a stainless steel braided cable for durability and oxidation resistance, ensuring stable performance across a wide temperature range.



Image 1: Overview of the ZAWELIYO K Type Temperature Sensor Probe, showing the stainless steel braided cable, probe tip, and yellow K-type micro connector.

## Key Features:

- **High Accuracy:** K type thermocouple with an accuracy of  $\pm 1^{\circ}\text{C}$ , providing stable and reliable measurements.
- **Wide Measuring Range:** Capable of measuring temperatures from  $-100^{\circ}\text{C}$  to  $1250^{\circ}\text{C}$  ( $-100^{\circ}\text{F}$  to  $2300^{\circ}\text{F}$ ).
- **Durable Construction:** Features a stainless steel braided cable for enhanced durability and resistance to oxidation, suitable for various environments.
- **Standard Design:** Equipped with a standard 1/8in NPT thread and an 80mm probe length for secure and stable connections.
- **Easy Installation:** Designed for straightforward setup and integration into existing systems.

## 2. SETUP AND INSTALLATION

Proper installation ensures accurate readings and extends the lifespan of your temperature sensor. Follow these steps for setup:

1. **Unpack the Sensor:** Carefully remove the temperature sensor probe from its packaging. Inspect for any visible damage.
2. **Identify Components:** Familiarize yourself with the probe tip, 1/8in NPT thread, stainless steel cable, and the K-type micro connector.
3. **Prepare Installation Point:** Ensure the measurement point is clean and free from obstructions. The 1/8in NPT thread is designed for secure mounting into compatible ports.
4. **Mount the Probe:** Thread the probe into the desired measurement location. Tighten securely but do not overtighten to avoid damaging the thread or the probe. The adjustable compression accessory allows for length adjustment of the probe.
5. **Connect to Device:** Connect the yellow K-type micro connector to a compatible K-type thermocouple input on your temperature monitoring device, controller, or multimeter. Ensure the polarity is correct (positive to positive, negative to negative).
6. **Secure Cable:** Route the 2-meter stainless steel braided cable away from heat sources or moving parts to prevent damage. Use cable ties or clamps if necessary to secure it.



### 3. OPERATING INSTRUCTIONS

Once installed, the ZAWELIYO K Type Temperature Sensor Probe operates by converting temperature differences into an electrical voltage, which is then read by your connected device.

- **Power On:** Turn on your temperature monitoring device or controller.
- **Select K-Type:** Ensure your device is configured to read K-type thermocouples. Refer to your device's manual for specific settings.
- **Monitor Readings:** The device will display the temperature measured by the probe. Allow a few moments for the reading to stabilize, especially after initial power-on or significant temperature changes.
- **Temperature Range:** Operate the sensor within its specified working temperature range of -100°C to 1250°C (-100°F to 2300°F) to ensure accuracy and prevent damage.



## High accuracy, high reliability

Stainless steel weaving wire, corrosion resistance  
Standard size for easy installation

Image 3: The K Type Thermocouple Probe, highlighting its wide measurement range of -100 to 1250°C (-100 to 2300°F).

## 4. MAINTENANCE AND CARE

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The ZAWELIYO K Type Temperature Sensor Probe is designed for durability, but proper maintenance can further extend its operational life.

- **Regular Inspection:** Periodically inspect the probe tip, cable, and connector for any signs of physical damage, corrosion, or wear.
- **Cleaning:** If the probe tip accumulates residue from the measured medium, gently clean it using a soft cloth and appropriate cleaning agents that will not damage the stainless steel. Ensure the probe is completely dry before re-use.
- **Avoid Bending:** Do not sharply bend or kink the stainless steel braided cable, as this can damage the internal wiring.
- **Storage:** When not in use, store the sensor in a clean, dry environment, protected from extreme temperatures and physical impact.
- **Calibration:** While K-type thermocouples are generally stable, periodic calibration against a known standard may be necessary for applications requiring extremely high precision.

## 5. TROUBLESHOOTING

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If you encounter issues with your temperature sensor, consider the following common troubleshooting steps:

- **No Reading or Erratic Readings:**
  - Check the connection of the K-type micro connector to your device. Ensure it is fully seated and the polarity is correct.
  - Verify that your monitoring device is set to read K-type thermocouples.
  - Inspect the cable for any visible damage or breaks.
  - Ensure the probe tip is properly immersed or in contact with the medium being measured.
- **Inaccurate Readings:**
  - Confirm the probe is fully inserted into the measurement environment.
  - Check for any external heat sources or drafts affecting the probe or cable.
  - Ensure the probe tip is clean and free from insulating buildup.
  - If possible, test the sensor against another known accurate temperature source.
- **Sensor Not Fitting:**
  - Verify that the installation port is compatible with a 1/8in NPT thread.
  - Check the probe length (80mm) and diameter (5mm) against your application requirements.

If these steps do not resolve the issue, contact ZAWELIYO customer support for further assistance.

## 6. PRODUCT SPECIFICATIONS

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<b>Item Model Number</b>	ZAWELIYOqvxzm6c7ra
<b>Working Temperature Range</b>	-100°C to 1250°C (-100°F to 2300°F)
<b>Probe Diameter</b>	Approx. 5mm / 0.2in
<b>Probe Length</b>	Approx. 80mm / 3.2in
<b>Thread Type</b>	1/8in NPT
<b>Cable Length</b>	Approx. 2 meters / 6.6ft
<b>Cable Material</b>	Stainless Steel Weaving
<b>Cable Internal Insulation</b>	Glass Fibre
<b>Connector Type</b>	K Type Micro Connector
<b>Accuracy</b>	±1°C
<b>Manufacturer</b>	ZAWELIYO

## 7. WARRANTY AND SUPPORT

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For information regarding warranty coverage, technical support, or service inquiries for your ZAWELIYO K Type Temperature Sensor Probe, please contact the manufacturer directly.

Refer to the product packaging or the official ZAWELIYO website for the most current contact information.

