Cooper-Atkins 50004-K

Cooper-Atkins 50004-K Universal Holding Cabinet Surface Probes Instruction Manual

Model: 50004-K

1. Introduction

Product Description

The Cooper-Atkins 50004-K Universal Holding Cabinet Surface Probe is a precision measuring instrument designed for accurate temperature measurement on a variety of surfaces. This includes griddles, grills, motors, pipes, and plastic molds. It is important to note that while excellent for surface temperature, it is not practical to estimate the temperature within a solid by measuring its surface temperature.

Key Features

- Product Type: PRECISION MEASURING
- Package length: 45.974 cm
- Package width: 7.62 cm
- Package height: 2.794 cm

2. Setup

Unpacking

Carefully remove the probe from its packaging. Retain all packaging materials for future storage or transport.

Initial Inspection

Before first use, visually inspect the probe for any signs of damage, such as bends in the shaft, cracks in the handle, or loose connections. Ensure the probe tip is clean and intact.

Connecting the Probe

The 50004-K probe is equipped with a standard Type K thermocouple connector. Connect the yellow male plug of the probe to a compatible Type K thermocouple input on your thermometer or data logger. Ensure a secure and firm connection for accurate readings.



An image showing the Cooper-Atkins 50004-K Universal Holding Cabinet Surface Probe. It features a long metallic shaft, a black ergonomic handle, and a white probe head at the end, with a yellow connector visible at the handle's base.

3. Operating Instructions

Temperature Measurement

To measure surface temperature, firmly press the probe tip against the surface to be measured. Maintain consistent pressure to ensure good thermal contact. Allow sufficient time for the reading to stabilize, typically around 4 seconds as per specifications. The probe is designed to measure temperatures within a range of -40°F to 300°F (-40°C to 149°C).

Best Practices

- Ensure the probe tip is clean before each measurement to prevent inaccurate readings.
- Apply consistent and firm pressure to the probe against the surface for optimal thermal transfer.
- Avoid measuring on highly reflective or extremely uneven surfaces without specialized techniques, as this can affect accuracy.
- Do not use the probe beyond its specified temperature range.

4. Maintenance

Cleaning

After each use, clean the probe tip with a damp cloth and mild detergent. Do not immerse the entire probe in liquid, especially the handle and connector. Ensure the probe is completely dry before storage.

Storage

Store the probe in a clean, dry environment, away from extreme temperatures, high humidity, and corrosive materials. Protect the probe tip and cable from physical damage, kinks, or sharp bends.

Calibration

Regular calibration is recommended to ensure the continued accuracy and reliability of your probe. Refer to your thermometer's manual for specific calibration procedures or contact a certified calibration service for professional assistance.

5. Troubleshooting

Inaccurate Readings

- **Poor Contact:** Ensure the probe tip is making firm and consistent contact with the surface being measured.
- **Dirty Tip:** Clean the probe tip thoroughly. Residue can insulate the tip and lead to incorrect readings.
- **Incorrect Thermometer Setting:** Verify that your thermometer is set to the correct thermocouple type (Type K).
- **Probe Damage:** Inspect the probe for any visible damage to the tip, shaft, or cable.

No Reading

- **Loose Connection:** Check the connection between the probe's yellow plug and the thermometer's input. Ensure it is fully inserted and secure.
- **Thermometer Issue:** Verify that your thermometer is powered on and functioning correctly with other probes, if available.
- **Cable Damage:** Inspect the probe cable for any breaks, cuts, or severe kinks that could interrupt the signal.

6. Specifications

Attribute	Value
Product Type	PRECISION MEASURING
Temperature Range	-40 to 300 Degrees F (-40 to 149 Degrees C)
Response Time	4 seconds
Item Model Number	50004-K
Manufacturer	Cooper-Atkins Corporation
Package Dimensions	18.1 x 3 x 1.1 inches; 2.4 ounces
Special Feature	High Accuracy
Unit Count	1.0 Count
UPC	070131450043

7. Warranty Information

This product is manufactured by Cooper-Atkins Corporation. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Cooper-Atkins website for the most up-to-date warranty policy.

8. Customer Support

For technical assistance, service, replacement parts, or any other inquiries regarding your Cooper-Atkins 50004-K probe, please contact Cooper-Atkins customer support. Visit the official Cooper-Atkins website for contact information and additional resources.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question