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› DANOPPLUS Digital K Type Thermometer User Manual

DANOPLUS KB0315_2P

DANOPLUS Digital K Type Thermometer User Manual

Model: KB0315_2P | Brand: DANOPPLUS

INTRODUCTION

Thank you for choosing the DANOPPLUS Digital K Type Thermometer. This device is designed for precise and reliable temperature measurement across a wide range of industrial and laboratory applications. Featuring dual-channel input and multiple functions, it provides accurate readings for various needs. Please read this manual thoroughly before operation to ensure proper use and to maximize the lifespan of your thermometer.

SAFETY INFORMATION

- Do not expose the device to extreme temperatures or humidity beyond its specified operating range.
- Avoid dropping the thermometer or subjecting it to strong impacts. The removable silicon rubber holster provides protection against accidental drops.
- Ensure probes are securely connected before taking measurements.
- When measuring high temperatures, exercise caution to prevent burns. Probes can become extremely hot.
- Do not attempt to disassemble or modify the thermometer. Refer to qualified personnel for repairs.
- Keep the device and probes out of reach of children.
- Always use the correct type of K-type thermocouple for your application to ensure accurate and safe measurements.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x DANOPPLUS Digital K Type Thermometer Main Unit
- 2x Wired K-type bead-type tipped Thermocouples
- 2x Stainless Steel Type K-type Thermocouples
- 1x Silicon Rubber Holster
- 1x 9V Battery (included)
- 1x English Instruction Manual
- 1x Protective Carrying Case



Image: The DANOPPLUS Digital K Type Thermometer main unit, along with the four included K-type thermocouples (two wired bead-type and two stainless steel probes), and the protective carrying case.

PRODUCT OVERVIEW

Familiarize yourself with the components of your DANOPPLUS Digital K Type Thermometer:

UNIT SWITCH FUNCTION

This thermocouple provides precise temperature measurement with an easy switch between Celsius (°C), Fahrenheit (°F), and Kelvin (K).

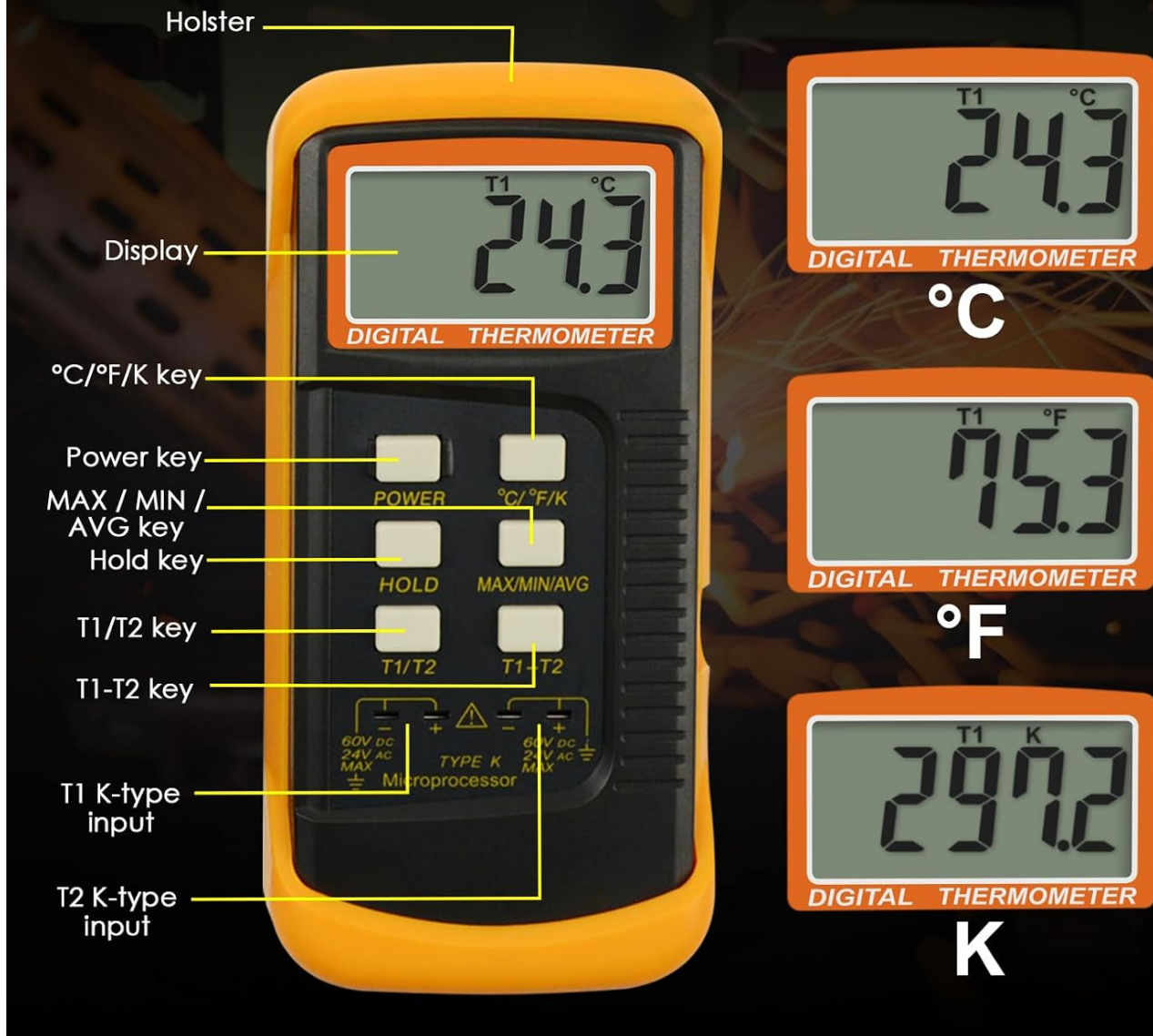


Image: A detailed diagram highlighting the key features of the thermometer, including the LCD display, Power key, °C/°F/K key, HOLD key, MAX/MIN/AVG key, T1/T2 key, T1-T2 key, T1 K-type input, T2 K-type input, and the silicon holster.

- **LCD Display:** Large, clear display for temperature readings.
- **Power Key:** Turns the device ON/OFF.
- **°C/°F/K Key:** Switches between Celsius (°C), Fahrenheit (°F), and Kelvin (K) units.
- **HOLD Key:** Freezes the current temperature reading on the display.
- **MAX/MIN/AVG Key:** Cycles through maximum, minimum, and average temperature readings.
- **T1/T2 Key:** Toggles between displaying temperature from Probe 1 (T1) or Probe 2 (T2).
- **T1-T2 Key:** Displays the temperature difference between Probe 1 and Probe 2.
- **K-type Inputs (T1 & T2):** Ports for connecting K-type thermocouple probes.
- **Silicon Rubber Holster:** Provides protection and a comfortable grip.

1. Battery Installation

1. Remove the silicon rubber holster from the thermometer.
2. Locate the battery compartment cover on the back of the unit.
3. Open the cover and insert the included 9V battery, observing the correct polarity (+/-).
4. Close the battery compartment cover and reattach the silicon holster.

2. Probe Connection

1. Select the appropriate K-type thermocouple probe for your measurement needs (wired bead-type or stainless steel).
2. Insert the yellow plug of the thermocouple probe into either the T1 or T2 input port at the bottom of the thermometer. Ensure a firm connection.
3. For dual-channel measurement, connect a second probe to the remaining input port.



Image: A close-up view of a hand inserting a K-type thermocouple probe into one of the input ports on the DANOPLUS thermometer, demonstrating the probe connection process.

OPERATING INSTRUCTIONS

Power ON/OFF

Press the **POWER** button to turn the thermometer ON or OFF.

Selecting Temperature Unit (°C/°F/K)

Press the **°C/°F/K** button to cycle through Celsius (°C), Fahrenheit (°F), and Kelvin (K) units. The selected unit will be displayed on the LCD.

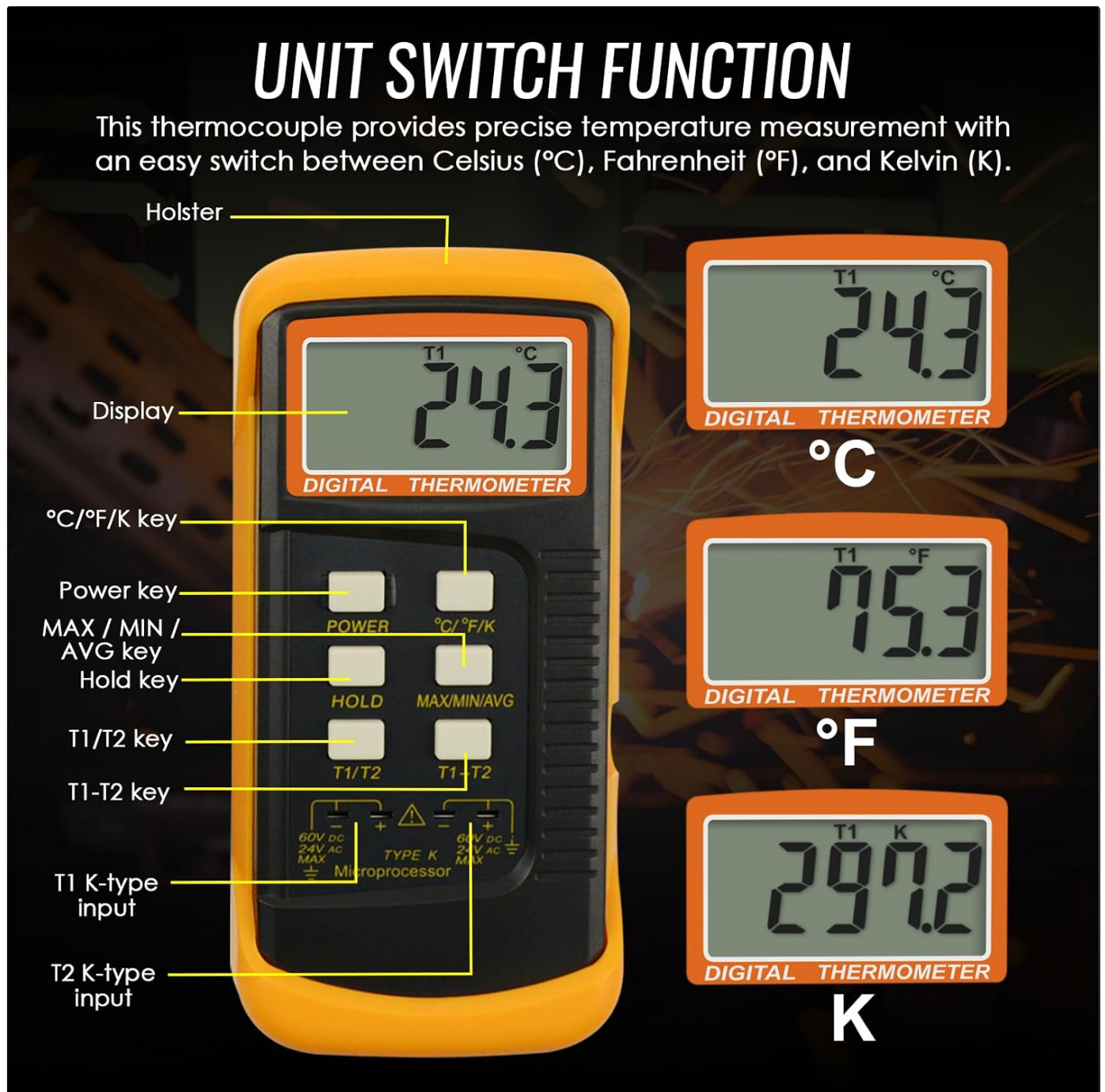


Image: The thermometer's display showing temperature readings in three different units: Celsius, Fahrenheit, and Kelvin, illustrating the unit switching capability.

Single/Dual Channel Measurement (T1/T2)

If only one probe is connected, the display will show the temperature from that probe. If two probes are connected:

- Press the **T1/T2** button to switch between displaying the temperature from Probe 1 (T1) or Probe 2 (T2).

- Press the **T1-T2** button to display the temperature difference between Probe 1 and Probe 2. This is useful for comparing two points simultaneously.

Data Hold Function

Press the **HOLD** button to freeze the current reading on the display. Press it again to release the hold and resume live readings.

MAX/MIN/AVG Function

Press the **MAX/MIN/AVG** button to cycle through the following modes:

- **MAX:** Displays the maximum temperature recorded since the function was activated or reset.
- **MIN:** Displays the minimum temperature recorded since the function was activated or reset.
- **AVG:** Displays the average temperature recorded since the function was activated or reset.

To reset the MAX/MIN/AVG values, press and hold the **MAX/MIN/AVG** button until the display clears or resets.

Auto Power Off

The thermometer features an auto power-off function to conserve battery life. It will automatically turn off after a period of inactivity. Press any button to reactivate the device.

APPLICATIONS

The DANOPLUS Digital K Type Thermometer is suitable for a wide range of applications due to its broad temperature measurement capabilities and dual-channel functionality. Here are some common uses:



WIDE APPLICATION

Industrial Furnace



Industrial Oven



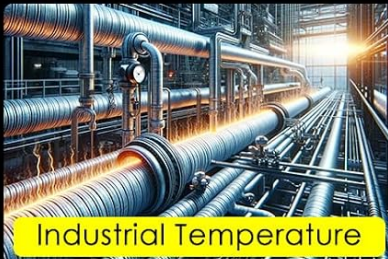
Ceramics / Pottery



Molten Metal



Industrial Temperature



Laboratory



Image: The thermometer being used to measure the temperature of water in a pool (left) and the high temperature of molten metal (right), demonstrating its versatility across different temperature ranges.

- **Industrial Furnaces and Ovens:** Monitoring and controlling temperatures in high-heat environments.
- **Ceramics and Pottery:** Ensuring precise firing temperatures for ceramic kilns.
- **Molten Metal:** Measuring the temperature of liquid metals in foundries.
- **HVAC Systems:** Checking air temperatures in ducts and vents.
- **Food Processing:** Monitoring temperatures during cooking, baking, or refrigeration.
- **Laboratories:** General temperature measurement for experiments and processes.



Image: A collage showcasing various applications including industrial furnaces, industrial ovens, ceramics/pottery, molten metal, industrial temperature monitoring, and laboratory use, highlighting the wide applicability of the thermometer.

Your browser does not support the video tag.

Video: An official product video demonstrating the features and various applications of the DANOPPLUS Digital K-Type Thermocouple Thermometer, including unit switching, dual-channel input, and the components included in the set.

MAINTENANCE

- **Cleaning:** Wipe the main unit with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the device is dry before storage.
- **Probe Care:** Clean probes after each use, especially when measuring different substances, to prevent cross-contamination and ensure accuracy. Allow hot probes to cool before cleaning.
- **Storage:** Store the thermometer and probes in the protective carrying case in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Replacement:** Replace the 9V battery when the low battery indicator appears on the display to ensure

continuous accurate operation.

- **Probe Replacement:** K-type thermocouples are consumable items and may degrade over time, especially with frequent use at high temperatures. Replace probes if they show signs of damage or provide inconsistent readings. Any standard K-Type thermocouple connectors can be used for replacement.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No display/Device won't turn on	Dead or incorrectly installed battery.	Check battery polarity. Replace with a new 9V battery.
Inaccurate readings	Loose probe connection, damaged probe, incorrect probe type, or probe not fully inserted into the medium.	Ensure probes are securely connected. Inspect probes for damage and replace if necessary. Verify the probe is suitable for the temperature range. Ensure proper immersion.
"OL" or "---" on display	Temperature is outside the measurement range of the probe or the device. Open circuit in the probe.	Ensure the temperature is within the specified range. Check probe for breaks or damage. Replace probe if faulty.
Display freezes (not in HOLD mode)	Temporary software glitch.	Turn the device off and then on again. If the issue persists, remove and reinsert the battery.

SPECIFICATIONS

Feature	Detail
Model Number	KB0315_2P
Main Unit Temperature Range	-50°C to 1300°C (-58°F to 2372°F)
Stainless Steel K-type Probe Range	-50°C to 700°C (-58°F to 1292°F)
External Thermocouples (Wired) Range	-50°C to 400°C (-58°F to 752°F)
Temperature Units	Celsius (°C), Fahrenheit (°F), Kelvin (K)
Display Type	LCD (5 digits)
Channels	Dual (T1, T2, T1-T2)
Functions	MAX/MIN/AVG, Data Hold, Auto Power Off
Power Supply	1x 9V Battery (included)
Dimensions	Approx. 7.1 cm x 16.1 cm x 4.2 cm (2.79 x 6.34 x 1.65 inches)
Weight	Approx. 300g (0.66 lbs) (including batteries)
Outer Material	Stainless Steel (for probes)



K-TYPE THERMOCOUPLE

STAINLESS STEEL K-TYPE PROBE

Image: The DANOPPLUS thermometer shown with its approximate dimensions and weight, providing a visual reference for its size and portability.

WARRANTY AND SUPPORT

DANOPLUS products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the contact information provided on the product packaging or visit the official DANOPPLUS website. Please retain your proof of purchase for warranty claims.

For additional resources and product information, you may visit the [DANOPLUS Store on Amazon](#).

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.

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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

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