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## BESTDO 6802 II

# BESTDO 6802 II Digital Thermometer

Durable Precision Dual Channel Digital Thermometer with 2 K-Type Thermocouple Sensor

## 1. INTRODUCTION

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Thank you for choosing the BESTDO 6802 II Digital Thermometer. This instrument is designed for precise temperature measurement across a wide range, utilizing two K-type thermocouple sensors. Its robust construction and advanced features make it suitable for various industrial and scientific applications.

## 2. PRODUCT FEATURES

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- **Durable Construction:** Made of high-quality plastic, rugged and refined, with durable electronic components.
- **Large LCD Display:** Features a 5-digit large LCD display for clear readings. Includes an overload display alert when input exceeds the measurement range.
- **Selectable Temperature Units:** Temperature read-out in F or C selectable, with an additional K (Kelvin) temperature mode.
- **Wide Measurement Range:** Main unit range is -50C ~ 1300C (-58F ~ 2372F).
- **High Resolution & Accuracy:** Offers up to 0.1C / 0.1F resolution and 0.1C accuracy.
- **Advanced Functions:** Includes Self-Calibration Function and Restore Factory Setting for fine-tuning temperature.
- **Versatile Applications:** Ideal for use in ovens, furnaces, ceramics, pottery, molten metal, and many other industrial uses.
- **Dual Channel Measurement:** Supports T1/T2 and T1-T2 differential temperature measurement.
- **Data Hold:** Quick hold function to freeze current readings.
- **MAX/MIN/AVG:** Button for maximum, minimum, and average readings.
- **Quick Sampling:** Fast reading speed and automatic temperature compensation.
- **Battery Indicator:** Low battery indication and automatic power shut-off function.
- **Integrated Rear Bracket:** Features a foldable bracket for convenient viewing.
- **Shockproof Protective Sleeve:** Comes with a durable rubber protective sleeve.

## 3. PACKAGE CONTENTS

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The package includes the following items:

- BESTDO 6802 II Digital Thermometer Unit
- 2 x K-Type Thermocouple Sensors
- 1 x 9V Battery (included)

- Screws for battery compartment
- English User Manual



Figure 3.1: Package contents including the thermometer, two K-type thermocouples, and user manual.

## 4. SETUP AND INSTALLATION

### 4.1 Battery Installation

The thermometer requires one 9V battery. To install the battery:

1. Carefully remove the rubber protective sleeve from the thermometer.
2. Locate the battery compartment cover on the back of the unit.
3. Open the battery cover.
4. Connect the 9V battery to the battery clips, ensuring correct polarity.
5. Place the battery into the compartment and close the cover. Secure it with the provided screws.
6. Re-attach the rubber protective sleeve.



Figure 4.1: Installing the 9V battery into the thermometer.

## 4.2 Thermocouple Connection

The 6802 II thermometer supports two K-type thermocouple inputs (T1 and T2). Ensure correct polarity when connecting the sensors.

1. Identify the positive and negative poles on the K-type thermocouple connector.
2. Insert the thermocouple connector into the corresponding T1 or T2 input port on the thermometer, aligning the poles correctly.



Figure 4.2: K-Type Thermocouple Sensors.

### 4.3 Visual Guide: Unboxing and Setup

For a visual demonstration of unboxing, battery installation, and initial setup, please refer to the official product video below:

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Video 4.1: Official product video demonstrating the unboxing, battery installation, and initial setup of the BESTDO 6802 II Digital Thermometer.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Power On/Off

Press the **POWER** button to turn the instrument on or off.

### 5.2 Temperature Unit Selection (C/F/K)

Press the **C/F/K** button to cycle through Celsius (C), Fahrenheit (F), and Kelvin (K) temperature units.

### 5.3 Data Hold Function

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

### 5.4 MAX/MIN/AVG Function

Press the **MAX/MIN/AVG** button to display the maximum, minimum, or average measured temperature values. Cycle through these modes by pressing the button repeatedly.

### 5.5 Dual Channel Measurement (T1/T2 & T1-T2)

The thermometer can display readings from two thermocouples (T1 and T2) and their differential (T1-T2).

- Press **T1/T2** to switch between displaying T1, T2, or both simultaneously.
- Press **T1-T2** to display the temperature difference between the two connected thermocouples.



Figure 5.1: Front panel with control buttons and display.

### 5.6 Self-Calibration and Factory Reset

The thermometer features a self-calibration function for fine-tuning accuracy and an option to restore factory settings. Refer to the detailed user manual (physical copy) for specific instructions on these advanced functions.

## 6. MAINTENANCE

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To ensure the longevity and accuracy of your BESTDO 6802 II Digital Thermometer:

- **Cleaning:** Wipe the unit clean with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the thermometer 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.

## 7. TROUBLESHOOTING

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This section provides basic troubleshooting tips. For more complex issues, please refer to the full user manual or contact customer support.

- **Display is blank:** Check if the battery is correctly installed and has sufficient charge. Replace the 9V battery if necessary.
- **Incorrect readings:** Ensure the K-type thermocouples are properly connected with correct polarity. Verify that the selected temperature unit (C/F/K) is appropriate for your measurement. Consider performing a self-calibration if readings are consistently off.
- **"OL" or "---" displayed:** This indicates an overload or out-of-range measurement. Ensure the temperature being measured is within the thermometer's specified range (-50C to 1300C).

## 8. SPECIFICATIONS

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| Feature                | Description                 |
|------------------------|-----------------------------|
| Model Name             | 6802 II                     |
| Display Type           | Digital (5-digit LCD)       |
| Temperature Range      | -50C ~ 1300C (-58F ~ 2372F) |
| Temperature Resolution | 0.1C / 0.1F                 |
| Temperature Accuracy   | 0.1C                        |
| Thermocouple Type      | K-Type                      |
| Power Source           | 1 x 9V Battery (included)   |
| Product Dimensions     | 10.6 x 3.9 x 2 inches       |
| Item Weight            | 7.83 ounces                 |
| Outer Material         | Plastic                     |
| Color                  | Black, Orange               |
| Product Care           | Wipe Clean                  |

## 9. WARRANTY AND SUPPORT

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For information regarding product warranty, returns, or technical support, please refer to the documentation included with your

purchase or contact BESTDO customer service directly. Contact details can typically be found on the product packaging or the official BESTDO website.

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