TRACEABLE AO-94460-72

Traceable® Digital Thermometer with Calibration (Bottle Probe)

Model: AO-94460-72 | Brand: TRACEABLE

INTRODUCTION

This manual provides detailed instructions for the proper use, setup, and maintenance of your Traceable® Digital Thermometer with Bottle Probe. This precision instrument is designed for accurate temperature monitoring, particularly in environments requiring stable temperature readings such as refrigerators, freezers, and water baths. It features a sealed bottle probe that mimics the temperature of stored liquids, preventing false alarms from temporary door openings.

Each unit comes with a NIST-traceable certificate from an ISO/IEC 17025:2017 (1750.01) accredited calibration laboratory, ensuring accuracy and reliability.

PRODUCT OVERVIEW

Figure 1: Front view of the Traceable Digital Thermometer with Bottle Probe. The display shows current, minimum, and maximum temperatures. The bottle probe is connected via a cable.

Figure 2: The Traceable Digital Thermometer with its bottle probe positioned inside a refrigerator, demonstrating its typical application for stable temperature monitoring.

The Traceable Digital Thermometer is equipped with a triple-display, allowing simultaneous viewing of the current, minimum, and maximum temperatures. The sealed bottle probe is filled with a non-toxic glycol solution, which buffers temperature changes, providing a more accurate representation of the temperature of stored contents rather than ambient air fluctuations.

- **Triple-Display:** Shows high, low, and current temperature simultaneously.
- **Min/Max Memory:** Stores minimum and maximum temperatures until cleared.
- **Bottle Probe:** Sealed bottle filled with glycol solution for stable temperature readings, ideal for refrigerator/freezer monitoring.
- **NIST-Traceable Certificate:** Ensures accuracy and compliance with regulatory requirements.
- **Versatile Placement:** Features a fold-out stand for desktop use, magnetic strips for metal surfaces, and a wall-mount keyhole.

Setup and Installation

1. **Battery Installation:** The thermometer requires one AA battery (included). Open the battery compartment on the back of the unit and insert the battery, observing polarity.

2. **Probe Placement:**

   - Place the bottle probe inside the environment you wish to monitor (e.g., refrigerator, freezer). Ensure the probe is positioned where it will accurately reflect the temperature of the contents.
   - Route the probe cable carefully to avoid pinching or damage.

3. **Unit Placement:**

   - Use the fold-out stand to place the unit on a flat surface.
   - Utilize the magnetic strips on the back to attach the unit to a metal surface (e.g., refrigerator door).
   - Hang the unit on a wall using the keyhole slot.

4. **Initial Power On:** The unit should power on automatically once the battery is installed. The display will show the current temperature, along with the minimum and maximum recorded temperatures since the last reset.

Tranquillité d'esprit absolue

Grâce au contrôle sans effort et au stockage en mémoire des températures vous permettant de ne jamais rien manquer

Il s'accompagne d'un certificat de traçabilité NIST délivré par notre laboratoire d'étalonnage accrédité A2LA (1750.01).

NIST

Figure 3: Rear view of the thermometer, illustrating the battery compartment, fold-out stand, and wall-mount keyhole.

OPERATING INSTRUCTIONS

Display Functions

The thermometer's display shows three temperature readings simultaneously:

- **Current Temperature:** The real-time temperature reading from the bottle probe.
- **MIN Temperature:** The lowest temperature recorded since the last memory clear.
- **MAX Temperature:** The highest temperature recorded since the last memory clear.

Button Functions

Button	Function
MEMORY CLEAR	Press to clear the stored MIN and MAX temperature readings. The display will update with the current temperature as the new MIN/MAX.
MODE	Toggles between Celsius (°C) and Fahrenheit (°F) temperature units.
ALARM ON/OFF Switch	Activates or deactivates the audible alarm function. When activated, the alarm will sound if the temperature goes outside the set high/low alarm limits.
RESET (on back)	A small button on the back of the unit (often recessed) used to perform a hard reset of the device, typically requiring a pointed object like a paperclip. This will clear all settings and memory.
LO/HI (on back)	Buttons on the back of the unit used to set the low and high temperature alarm limits. Refer to the alarm setting section for details.

Setting Alarms (Optional)

The thermometer can be configured to sound an alarm if the temperature exceeds or falls below user-defined limits. The alarm setting buttons (LO and HI) are located on the back of the unit.

1. Ensure the ALARM ON/OFF switch is in the OFF position before setting limits.
2. Press and hold the **LO** button on the back of the unit. The LO temperature will flash. Use the **MODE** button on the front to adjust the desired low alarm limit. Release the LO button to set.
3. Press and hold the **HI** button on the back of the unit. The HI temperature will flash. Use the **MODE** button on the front to adjust the desired high alarm limit. Release the HI button to set.
4. Once limits are set, slide the **ALARM ON/OFF** switch to the ON position to activate the alarm.
5. If the temperature goes outside the set range, the alarm will sound. To silence the alarm, slide the ALARM ON/OFF switch to OFF.

Réduisez les risques pour plus de conformité

Contrôle rigoureux et aisé des températures

Mesures précises et sûres

Haute polyvalence dans tous les environnements

Haute qualité et alimentation par pile

Convivialité et lecture facile

Affichage triple de la température avec alertes

Figure 4: Detailed view of the thermometer's front control buttons (Memory Clear, Mode, Alarm On/Off) and the rear panel showing the LO, HI, and Reset buttons for alarm configuration.

SPECIFICATIONS

Feature	Detail
Model Number	AO-94460-72
Temperature Range	-50 to 70°C (-58 to 158°F)
Resolution	1° (Celsius/Fahrenheit)
Display Type	Digital LCD, Triple-display
Probe Type	Sealed Bottle Probe (glycol-filled)
Probe Cable Length	Approximately 3 meters (10 feet)

Feature	Detail
Power Source	1 x AA Battery (included)
Product Dimensions	8.19 x 4.61 x 2.44 inches (20.8 x 11.7 x 6.2 cm); 8 ounces
Outer Material	Plastic
Special Feature	High Accuracy, NIST-Traceable Calibration
Included Components	Digital Thermometer Unit, Bottle Probe, 1 AA Battery, NIST-Traceable Certificate

Obtenez des relevés de température précis en toutes circonstances

HAUTEUR
20.8 cm

TRACEABLE®

25℃

MIN 23℃ MAX 25℃

MEMORY CLEAR   MODE   ALARM ON OFF

PLAGE DE TEMPÉRATURE
−50 à 70°C
−58 à 158°F

LARGEUR
6.2 cm

LONGUEUR
11.7 cm

Figure 5: Diagram showing the approximate dimensions of the thermometer unit.

Maintenance and Care

- **Cleaning:** Wipe the unit and probe with a damp cloth. Do not immerse the main unit in water. The bottle probe is sealed and can be wiped clean.

- **Battery Replacement:** When the display becomes dim or erratic, replace the AA battery. Ensure proper polarity.
- **Storage:** Store the thermometer in a dry environment away from extreme temperatures when not in use for extended periods.
- **Calibration:** This thermometer comes with a NIST-traceable certificate. For continued accuracy and compliance, periodic re-calibration by an accredited laboratory is recommended, especially in regulated environments.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No display or dim display	Dead or low battery; incorrect battery installation.	Replace the AA battery, ensuring correct polarity (+/-).
Inaccurate readings	Probe not properly placed; probe damage; unit malfunction.	Ensure the bottle probe is fully immersed in the monitored environment. Check the probe cable for visible damage. If issues persist, contact customer support.
Alarm not sounding	Alarm switch is OFF; alarm limits not set correctly.	Slide the ALARM ON/OFF switch to ON. Verify that the LO and HI alarm limits are set to the desired range.
MIN/MAX readings not clearing	MEMORY CLEAR button not pressed firmly or unit malfunction.	Press the MEMORY CLEAR button firmly. If it still doesn't clear, try a hard reset using the RESET button on the back.

WARRANTY AND SUPPORT

Traceable products are designed for reliability and accuracy. For warranty information or technical support, please refer to the official TRACEABLE website or contact your authorized distributor. Each product includes a NIST-traceable certificate, ensuring its accuracy at the time of purchase.
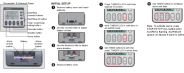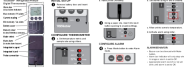
For further assistance, you may visit the TRACEABLE Store on Amazon or the manufacturer's website.

Related Documents

[Traceable Kangaroo Thermometer Instructions and Specifications](#)
User manual and specifications for the Traceable Kangaroo Thermometer, detailing operation, features like temperature alarms and memory, probe cable management, bench stand usage, battery replacement, and warranty information.

	[Traceable 3-Channel Timer Quick-Start Guide - Setup and Operation](#) Concise guide to setting up and operating the Traceable 3-Channel Timer (Model 5665), including initial setup, timer configuration, and starting/stopping channels. Features warranty and service information.
	[Traceable Refrigerator/Freezer Digital Thermometer Quick-Start Guide](#) Quick-start guide for the Traceable Refrigerator/Freezer Digital Thermometer (Models 5650, 5651, 5652). Learn how to set up, configure alarms, and understand display messages for accurate temperature monitoring.
	[TraceableLIVE WiFi Datalogging Refrigerator/Freezer Thermometer Instructions](#) Comprehensive instructions for setting up and operating the TraceableLIVE WiFi Datalogging Refrigerator/Freezer Thermometer, covering controls, specifications, setup, WiFi configuration, alarms, and troubleshooting.