

## VWR 10500-584

# VWR 10500-584 Traceable Refrigerator/Freezer Ultra Thermometer User Manual

Model: 10500-584

## 1. INTRODUCTION

This manual provides comprehensive instructions for the proper setup, operation, and maintenance of your VWR 10500-584 Traceable Refrigerator/Freezer Ultra Thermometer. This device is designed to accurately monitor temperatures in refrigerators and freezers, displaying current, minimum, and maximum readings simultaneously. It is engineered to meet stringent requirements for critical temperature monitoring, including CDC guidelines for vaccine storage.

## 2. PRODUCT FEATURES

- **Triple Display:** Simultaneously shows current, minimum, and maximum temperatures.
- **Wide Temperature Range:** Measures from -50°C to 70°C (-58°F to 158°F).
- **High Resolution:** 0.1° resolution for precise readings.
- **Ultra Accuracy:**  $\pm 0.5^{\circ}\text{C}$  accuracy between -30°C and 50°C; otherwise  $\pm 1^{\circ}\text{C}$ .
- **CDC Compliance:** Designed to meet current CDC requirements for vaccine storage and monitoring.
- **Probe Selection:** Features a switch for selecting between two probes (if applicable, based on image).
- **Memory Clear Function:** Button to reset minimum and maximum temperature records.

## 3. SETUP

Follow these steps to prepare your thermometer for use:

1. **Battery Installation:** Open the battery compartment (typically on the back) and insert the required batteries, observing correct polarity.
2. **Probe Placement:** Connect the temperature probe(s) to the designated ports. Place the probe(s) in the desired monitoring location within the refrigerator or freezer. Ensure the probe cable is not pinched or damaged by the door seal.
3. **Initial Power On:** The device should power on automatically once batteries are installed. Verify the

display shows temperature readings.

4. **Unit Selection:** If applicable, select the desired temperature unit (°C or °F) using the appropriate button (often the 'MODE' button or a dedicated switch).



**Figure 1:** VWR 10500-584 Traceable Refrigerator/Freezer Ultra Thermometer. The image displays the thermometer unit with its digital screen showing temperature readings, and a connected probe immersed in a small bottle, likely simulating a buffered solution for stable temperature measurement.

## 4. OPERATING INSTRUCTIONS

Understanding the display and controls:

- **Current Temperature:** The largest number on the display indicates the real-time temperature reading from the selected probe.
- **Minimum (MIN) Temperature:** Shows the lowest temperature recorded since the last memory clear.
- **Maximum (MAX) Temperature:** Shows the highest temperature recorded since the last memory clear.
- **MEMORY CLEAR Button:** Press this button to reset the recorded minimum and maximum temperatures. The current temperature will then become the initial MIN and MAX values until new extremes are reached.

- **MODE Button:** This button typically cycles through display modes or switches between Celsius and Fahrenheit units. Refer to the specific device markings for its exact function.
- **PROBE Switch (1/2):** If your model has two probes, use this switch to select which probe's readings are displayed as the current temperature. The MIN/MAX values will correspond to the currently selected probe.

## 5. MAINTENANCE

- **Cleaning:** Wipe the thermometer unit and probes with a damp cloth. Do not immerse the main unit in water. Avoid using abrasive cleaners or solvents.
- **Battery Replacement:** When the display becomes dim or the low battery indicator appears, replace the batteries promptly. Use the specified battery type.
- **Probe Care:** Handle probes carefully. Avoid bending or kinking the probe cables excessively. Ensure probe connections are secure.
- **Storage:** When not in use for extended periods, remove batteries and store the thermometer in a cool, dry place.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display or dim display	Dead or low batteries; incorrect battery installation.	Replace batteries with new ones, ensuring correct polarity.
Inaccurate temperature readings	Probe not properly connected; damaged probe; external interference.	Check probe connection. Inspect probe for damage. Ensure probe is correctly positioned.
MIN/MAX values not resetting	'MEMORY CLEAR' button not pressed firmly or device malfunction.	Press the 'MEMORY CLEAR' button firmly. If issue persists, contact support.

## 7. SPECIFICATIONS





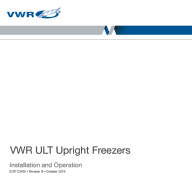
- **Model Number:** 10500-584
- **Temperature Range:** -50°C to 70°C (-58°F to 158°F)
- **Resolution:** 0.1°
- **Accuracy:** ±0.5°C between -30°C and 50°C; otherwise ±1°C
- **Package Dimensions:** 12.7 x 10.16 x 5.08 cm
- **Weight:** 1.36 kg
- **Manufacturer:** VWR International

## 8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your VWR 10500-584 Traceable Refrigerator/Freezer Ultra Thermometer, please contact VWR International directly through their official

website or customer service channels. Keep your purchase receipt as proof of purchase.

## Related Documents - 10500-584

	<p><a href="#">VWR Traceable Workstation Barometer with Clock: User Manual and Specifications</a></p> <p>Comprehensive guide to operating the VWR Traceable Workstation Barometer with Clock, including setup, features like barometric pressure, temperature, weather forecasting, alarm functions, and technical specifications. Also includes details for the VWR Thermometer.</p>
	<p><a href="#">VWR Signature Circulating Baths with Advanced Digital Temperature Controller Instruction Manual</a></p> <p>This instruction manual provides detailed guidance on the installation, operation, safety, and maintenance of VWR Signature Circulating Baths equipped with an Advanced Digital Temperature Controller. Learn about model specifications, troubleshooting, and technical information for precise temperature control applications.</p>
	<p><a href="#">VWR 12 and 18 Liter Linear Shaking Water Bath Instruction Manual</a></p> <p>Comprehensive instruction manual for the VWR 12 and 18 liter linear shaking water baths. Covers safety precautions, setup, operation, specifications, maintenance, troubleshooting, warranty, and disposal.</p>
	<p><a href="#">VWR Lab Products Guide: Comprehensive Catalog of Scientific Equipment and Supplies</a></p> <p>Explore the VWR Lab Products Guide, featuring a wide range of high-quality laboratory equipment, consumables, and supplies for scientific research and applications, including cell culture, PCR, lab essentials, equipment, and lab furniture.</p>
	<p><a href="#">VWR ULT Upright Freezers: Installation and Operation Manual</a></p> <p>Comprehensive guide for the installation and operation of VWR ULT Upright Freezers, covering setup, usage, maintenance, and troubleshooting.</p>

# Instruction Manual

VWR® ULT Freezer  
264/352/528 Eco Premium  
For use in: 47 °C (117 °F) and 10 °C (50 °F) storage  
For use in: 10 °C (50 °F) and 10 °C (50 °F) storage



CE  
UK  
CA

## [VWR ULT Freezer 264/352/528 Eco Premium Instruction Manual](#)

This manual provides comprehensive instructions for the setup, operation, cleaning, and adjustment of the VWR® ULT Freezer models 264, 352, and 528 Eco Premium. It covers safety guidelines, chamber description, installation, controller functions, data recording, maintenance, and disposal.