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THOMAS SCIENTIFIC 9327L12

Traceable Refrigerator and Freezer Thermometer

MODEL: 9327L12

Brand: THOMAS SCIENTIFIC

1. INTRODUCTION

This manual provides comprehensive instructions for the proper setup, operation, and maintenance of your THOMAS SCIENTIFIC 9327L12 Traceable Refrigerator and Freezer Thermometer. This device is designed for accurate temperature monitoring in refrigerators and freezers, ensuring critical temperature-sensitive materials are stored within safe limits.



Image: The Traceable Refrigerator and Freezer Thermometer, showing the main unit with a digital display, control buttons, and an attached bottle probe containing green glycol solution.

The thermometer features an enclosed, temperature-buffered sensor within a glycol bottle, which insulates the sensor from rapid temperature changes caused by door openings. This ensures more stable and accurate readings of the actual contents' temperature.

2. SETUP

2.1. Battery Installation

1. Locate the battery compartment on the back of the thermometer unit.
2. Open the compartment cover.
3. Insert one AA battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

2.2. Sensor Placement

- Place the glycol bottle probe inside the refrigerator or freezer at the desired monitoring location. For best results, place it near the items you are monitoring.
- Ensure the cable connecting the probe to the main unit is not pinched or damaged by the refrigerator/freezer door seal.
- The main thermometer unit can be placed outside the appliance for easy viewing, or mounted using the integrated stand or magnetic back.

3. OPERATING INSTRUCTIONS

3.1. Display Overview

The 1.5-inch digital display shows the current temperature, as well as the minimum and maximum temperatures recorded since the last reset.

3.2. Button Functions

- **MEMORY CLEAR:** Press to clear the recorded minimum and maximum temperatures. The display will show the current temperature, and new min/max values will begin recording.
- **MODE:** Press to switch between Celsius (°C) and Fahrenheit (°F) temperature units.
- **ALARM ON/OFF:** This model features an alarm function. Refer to specific alarm setup instructions if available in your product's detailed manual. Press to toggle the alarm function on or off.

3.3. Temperature Range and Accuracy

The thermometer measures temperatures within a range of -50 to 70°C (-58 to 158°F) with a resolution of 1°C and an accuracy of $\pm 1^{\circ}\text{C}$.

4. MAINTENANCE

4.1. Cleaning

To clean the thermometer unit and probe, wipe them with a damp cloth. Do not immerse the unit in water. Avoid using abrasive cleaners or solvents that may damage the high-impact, chemical-resistant ABS case.

4.2. Battery Replacement

When the display becomes dim or erratic, it is time to replace the AA battery. Follow the battery installation steps outlined in Section 2.1.

4.3. Storage

If storing the thermometer for an extended period, remove the battery to prevent leakage and potential damage to the unit.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display or dim display	Dead or low battery; incorrect battery installation	Replace the AA battery; ensure correct polarity.
Inaccurate readings	Probe not properly placed; sensor damage	Ensure the glycol bottle probe is fully inside the monitored environment. If issues persist, contact support.
Buttons unresponsive	Battery issue; internal malfunction	Replace battery. If problem continues, contact customer support.

6. SPECIFICATIONS

Model Number: 9327L12

Temperature Range: -50 to 70°C (-58 to 158°F)

Resolution: 1°C

Accuracy: ±1°C

Display Size: 1.5 inches

Power Source: 1 x AA Battery

Case Material: High-impact, chemical-resistant Acrylonitrile Butadiene Styrene (ABS)

Dimensions: 8.27 x 4.57 x 2.36 inches

Weight: 8.32 ounces

Special Feature: Alarm

Product Care: Freezer Safe, Wipe Clean

7. WARRANTY AND SUPPORT

This product is manufactured by Thomas Scientific. For warranty information, technical support, or service inquiries, please contact Thomas Scientific customer service directly. Keep your purchase receipt as proof of purchase.

For the most up-to-date contact information, please visit the official Thomas Scientific website or refer to the packaging materials that came with your product.

Related Documents - 9327L12

 <p>1888-610-7664 • www.calcoet.com • sales@calcoet.com</p>	<p>Traceable Refrigerator/Freezer Digital Thermometer Quick-Start Guide</p> <p>Quick-start guide for the Traceable Refrigerator/Freezer Digital Thermometer (Models 5650, 5651, 5652). Learn setup, configuration, and alarm functions for accurate temperature monitoring.</p>
	<p>Sper Scientific 800130 Infrared Thermometer Instruction Manual</p> <p>Comprehensive instruction manual for the Sper Scientific 800130 infrared thermometer, covering operation, safety, maintenance, and specifications for accurate non-contact temperature measurement.</p>
	<p>Thermo Scientific Jewett High-Performance Laboratory Refrigerators and Freezers Product Catalog & Specifications</p> <p>Comprehensive catalog detailing Thermo Scientific Jewett high-performance laboratory refrigerators and freezers. Features include detailed specifications, model comparisons, options, accessories, and services for clinical, diagnostic, and research applications.</p>
	<p>Sper Scientific IR/Thermistor Pen 800108: Instruction Manual & Specifications</p> <p>This instruction manual provides detailed information on the Sper Scientific IR/Thermistor Pen (Model 800108), covering its features, measurement procedures, specifications, and warranty. Learn how to use this dual-function thermometer for infrared and thermistor temperature readings.</p>
	<p>SPARK LXi2 Datalogger (PS-3600B) - PASCO Product Guide</p> <p>Comprehensive product guide for the PASCO SPARK LXi2 Datalogger (PS-3600B), detailing its features, components, setup, apps, and technical support. Learn how to connect sensors and use its data collection capabilities.</p>
	<p>Sper Scientific Non-Contact Dual Use Infrared Thermometer TE-94 - Precision Temperature Measurement</p> <p>Discover the Sper Scientific TE-94 NIST Certified Non-Contact Dual Use Infrared Thermometer. Offers precision, convenience, and advanced non-contact measurement for body and surface temperatures. Ideal for home, office, and industrial use.</p>