

THOMAS SCIENTIFIC 6418

Thomas Scientific 6418 Traceable Precision Monitoring Thermohygrometer User Manual

Model: 6418

1. INTRODUCTION

This manual provides detailed instructions for the proper setup, operation, and maintenance of your Thomas Scientific 6418 Traceable Precision Monitoring Thermohygrometer. This device is designed for accurate and reliable monitoring of temperature and humidity, featuring simultaneous display of current, minimum, and maximum values, along with a 7-day historical graph. It includes NIST-traceable calibration for assured accuracy.

2. PACKAGE CONTENTS

Please verify that all items are present and in good condition upon unpacking.

- Thomas Scientific 6418 Thermohygrometer Unit
- Integrated or attached probe (if applicable)
- NIST-traceable calibration certificate



Image 2.1: The Thomas Scientific 6418 Thermohygrometer unit, showing the main display and the attached probe with a green vial.

3. SETUP

3.1 Initial Placement

The Thomas Scientific 6418 is designed for tabletop mounting. Place the unit on a stable, flat surface away from direct sunlight, heat sources, or areas with significant air currents that could affect readings. Ensure the probe is positioned in the environment where temperature and humidity measurements are required.

3.2 Powering the Device

This device does not require user-replaceable batteries. Connect the device to a suitable power source using the provided adapter or cable (if applicable). The display should illuminate, indicating the device is powered on.



Image 3.1: A detailed view of the thermohygrometer's display, showing current temperature and humidity values.

4. OPERATING INSTRUCTIONS

4.1 Display Overview

The device simultaneously displays the current temperature and humidity. Additionally, it shows the minimum (Min) and maximum (Max) recorded values for both parameters. A 7-day graph provides a visual representation of historical data.

4.2 Viewing Historical Data

To scroll through temperature and humidity data for the past seven days, use the designated navigation buttons on the unit. Refer to the on-screen prompts or specific button labels for navigation. Historical data is automatically stored and cannot be manually cleared, ensuring data integrity.

4.3 Changing Units and Time Format

The unit allows for easy switching between Fahrenheit (°F) and Celsius (°C) temperature scales. Similarly, the time display can be toggled between 12-hour and 24-hour formats. Locate the dedicated °F/°C and 12/24-hour buttons or menu options on the device to adjust these settings.

5. MAINTENANCE

5.1 Cleaning

To clean the device, wipe the exterior with a soft, damp cloth. Do not use abrasive cleaners, solvents, or immerse the unit in water. Ensure no liquid enters the device openings.

5.2 Storage

When not in use for extended periods, store the thermohygrometer in a cool, dry place, away from extreme temperatures and humidity. Protect the probe from physical damage.

5.3 Calibration

Your device comes with NIST-traceable calibration. For continued accuracy, periodic recalibration may be required depending on your application and regulatory requirements. Contact Thomas Scientific for recalibration services.

6. TROUBLESHOOTING

- **No Display:** Ensure the device is properly connected to a power source. Check the power outlet.

- **Inaccurate Readings:** Verify the probe is correctly positioned and not obstructed. Ensure the device is not exposed to extreme conditions outside its operating range. Allow sufficient time for the device to stabilize in a new environment.
- **Buttons Unresponsive:** Disconnect and reconnect the power to reset the device. If the issue persists, contact customer support.

7. SPECIFICATIONS

Feature	Detail
Model	6418
Brand	THOMAS SCIENTIFIC
Temperature Accuracy	0.5° (Units not specified, assuming °C or °F depending on setting)
Mounting Type	Tabletop
Included Components	Thermohygrometer Unit
Battery Description	No batteries needed (implies external power or non-user-replaceable internal battery)

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Thomas Scientific customer service. Keep your purchase receipt and product model number (6418) readily available when contacting support.

Contact Information: Please refer to the official Thomas Scientific website or your product packaging for the most current contact details.