THERMCO ACCR0201S U

THERMCO ACCR0201S U Accu-Safe Enclosed Chamber Spirit Filled Thermometer User Manual

Model: ACCR0201S U | Brand: THERMCO

1. Introduction

The THERMCO ACCR0201S U Accu-Safe Enclosed Chamber Spirit Filled Thermometer is designed for precise and reliable temperature measurement in critical environments such as blood bank refrigerators, ultra-low freezers, standard freezers, refrigerators, incubators, ambient rooms, block heaters, and ovens. This thermometer features a spirit-filled (non-mercury) column for environmental safety and is encapsulated in a fluoropolymer safety-shield to protect against breakage and contain any liquid or glass fragments. Each unit is individually serialized and supplied with a NIST (National Institute of Standards and Technology) certificate, ensuring traceability and accuracy.

2. Safety Information

- **Handle with Care:** Although protected by a fluoropolymer coating, the thermometer is made of glass. Avoid dropping or subjecting it to severe impacts.
- **Temperature Limits:** Do not expose the thermometer to temperatures outside its specified range of -5°C to 15°C. Extreme temperatures can damage the instrument or affect its accuracy.
- **Cleaning:** Refer to the maintenance section for proper cleaning procedures. Do not use abrasive cleaners or solvents that may damage the coating or markings.
- **Disposal:** In the event of breakage, the fluoropolymer coating is designed to contain the spirit and glass. Dispose of the broken thermometer according to local regulations for laboratory glass and non-hazardous waste.
- **Immersion:** Ensure the thermometer is used for total immersion as specified to achieve accurate readings.

3. Package Contents

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

- 1 x THERMCO ACCR0201S U Accu-Safe Enclosed Chamber Spirit Filled Thermometer
- 1 x NIST Traceable Certificate

4. Setup

1. **Unpacking:** Carefully remove the thermometer from its packaging. Inspect for any visible damage.
2. **NIST Certificate:** Locate the NIST traceable certificate provided with your thermometer. This document confirms the calibration and traceability of your specific unit. Keep this certificate for your records.
3. **Placement:** Position the thermometer in the desired environment (e.g., refrigerator, freezer, incubator). Ensure the thermometer is fully immersed in the medium or environment being measured, as it is designed for total immersion.
4. **Stabilization:** Allow sufficient time for the thermometer to stabilize to the ambient temperature of its new environment before taking a reading. This typically takes 15-30 minutes, depending on the temperature difference.

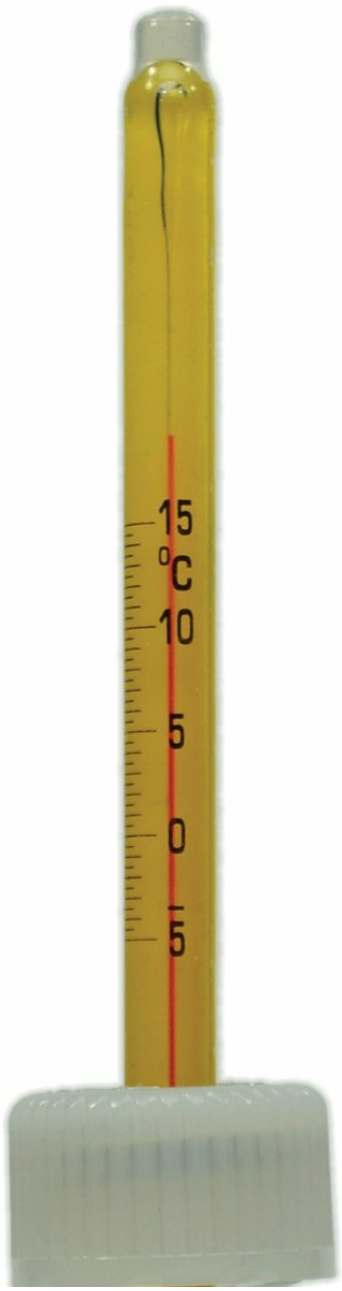




Figure 1: THERMCO ACCR0201S U Accu-Safe Enclosed Chamber Spirit Filled Thermometer. This image shows the thermometer with its red spirit column and protective coating, ready for use in various temperature-controlled environments.

5. Operating Instructions

The THERMCO ACCR0201S U is an analog thermometer designed for straightforward temperature measurement.

1. **Immersion:** Ensure the thermometer bulb and the entire liquid column are exposed to the temperature being measured. This thermometer is designed for total immersion.
2. **Reading the Temperature:** Once the thermometer has stabilized, read the temperature by observing the top of the red spirit column against the engraved scale. Read at eye level to avoid parallax error.
3. **Temperature Range:** The thermometer measures temperatures within the range of -5°C to 15°C, with divisions of 0.5°C.
4. **Accuracy:** The NIST certificate confirms the accuracy of your specific thermometer. For critical applications, always refer to the certificate for specific correction values if applicable.

6. Maintenance

- **Cleaning:** To clean the thermometer, gently wipe it with a soft, damp cloth. A mild soap solution can be used if necessary. Do not use harsh chemicals, abrasive cleaners, or solvents, as these may damage the fluoropolymer coating or the scale markings.
- **Storage:** When not in use, store the thermometer in a safe place where it will not be subjected to physical shock or

extreme temperatures.

- **Inspection:** Periodically inspect the thermometer for any signs of damage to the glass or the protective coating. If the coating is compromised or the glass is cracked, replace the thermometer.

7. Troubleshooting

- **Inaccurate Readings:** Ensure the thermometer has been allowed sufficient time to stabilize in the environment. Verify that it is fully immersed if required for the application. Check for any physical damage that might affect accuracy.
- **Spirit Column Separation:** Occasionally, the spirit column may separate due to transport or temperature fluctuations. To rejoin the column, gently tap the thermometer bulb-end down on a soft surface (e.g., a padded bench) until the column reconnects. Alternatively, cooling the bulb in a freezer can sometimes draw the column back together.
- **Breakage:** In the event of glass breakage, the fluoropolymer safety-shield is designed to contain the spirit and glass fragments. Carefully dispose of the thermometer as per local regulations for laboratory glass.

8. Specifications

Model	ACCR0201S U
Brand	THERMCO
Temperature Range	-5°C to 15°C
Division	0.5°C
Immersion	Total Immersion
Height	125mm (approx. 5.31 inches)
Filling	Spirit (Non-Mercury)
Coating	Fluoropolymer Safety-Shield
Certification	NIST Traceable Certificate
Display Type	Analog
Material	Glass
Item Weight	0.07 Kilograms

9. Warranty and Support

For warranty information, technical support, or service inquiries regarding your THERMCO ACCR0201S U thermometer, please contact THERMCO Products Inc. directly. Refer to the contact information provided on the product packaging or the official THERMCO website for the most current support details.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question