TANITA TT-509-WH

TANITA TT-509-WH Analog Temperature and Humidity Meter

User Manual

1. INTRODUCTION

Thank you for choosing the TANITA TT-509-WH Analog Temperature and Humidity Meter. This device provides accurate, real-time measurements of ambient temperature and relative humidity without the need for batteries. Its clear, easy-to-read dials make it simple to monitor your environment. Please read this manual thoroughly before use to ensure proper operation and longevity of your device.

2. PRODUCT FEATURES

- **Analog Display:** Clear, easy-to-read dials for temperature and humidity.
- **Battery-Free Operation:** Mechanical design requires no power source.
- **Dual Functionality:** Measures both temperature (in Celsius) and relative humidity.
- **Compact Design:** Suitable for various indoor environments.
- **Mounting Options:** Designed for tabletop placement or wall mounting.
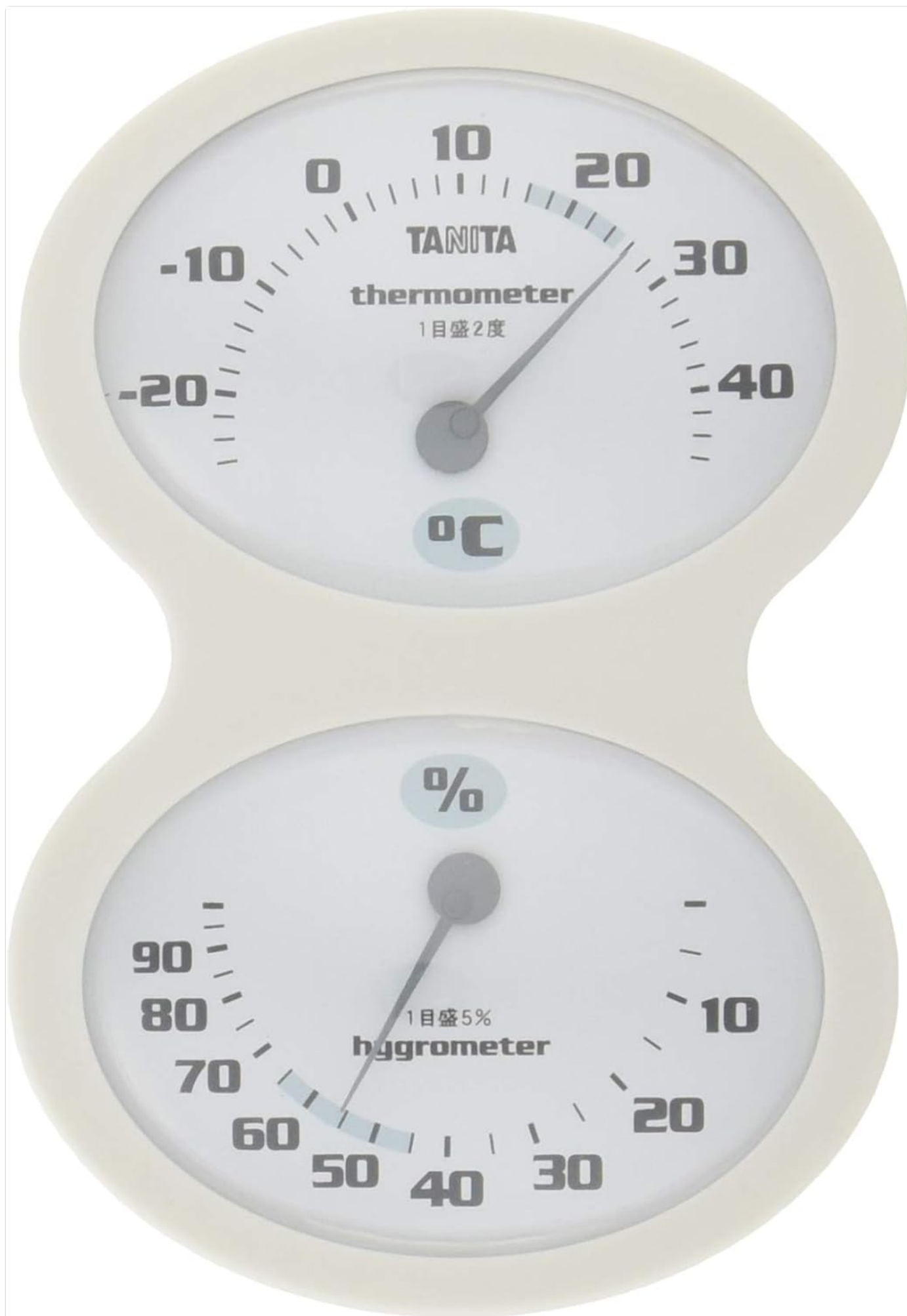
Figure 1: Front view of the TANITA TT-509-WH meter. The upper dial indicates temperature in Celsius, and the lower dial indicates relative

3. SETUP AND PLACEMENT

1. **Unpacking:** Carefully remove the device from its packaging. Inspect for any damage.

2. **Choosing a Location:**

   - Place the meter in a central location within the room where you wish to monitor temperature and humidity.

   - Avoid direct sunlight, drafts from windows or air conditioners, and proximity to heat sources (e.g., radiators, ovens) or moisture sources (e.g., humidifiers, bathrooms). These can lead to inaccurate readings.

   - Ensure the meter is placed at a height that allows for easy reading and represents the general room conditions.

3. **Mounting Options:**

   - **Tabletop Placement:** The device can stand freely on a flat surface.

   - **Wall Mounting:** The device features a hanging slot on the back for wall installation. Use an appropriate screw or hook (not included) to securely mount the device. Ensure the device hangs straight and is stable.

4. **Initial Stabilization:** Allow the meter approximately 30 minutes to stabilize in its chosen location before taking initial readings. This allows the internal components to adjust to the ambient conditions.
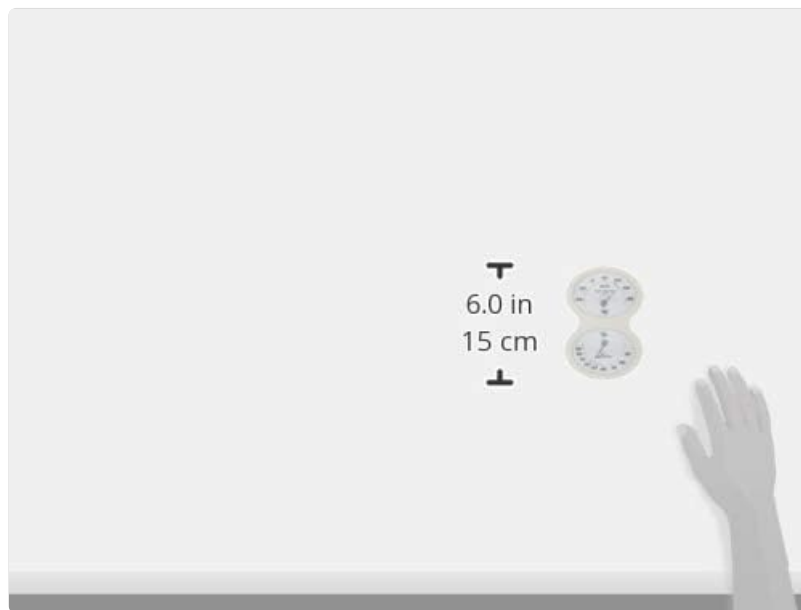

Figure 2: Dimensions of the TANITA TT-509-WH meter, showing its compact size.

4. OPERATION AND READING MEASUREMENTS

The TANITA TT-509-WH is an analog device that operates continuously without user intervention. Readings are displayed directly on the dials.

- **Reading Temperature:** The upper dial indicates the temperature in degrees Celsius (°C). The needle points to the current temperature. The scale typically ranges from -30°C to 50°C, with markings every 2°C.

- **Reading Humidity:** The lower dial indicates the relative humidity in percentage (%). The needle points to the current humidity level. The scale typically ranges from 0% to 100%, with markings every 5%.

- **Optimal Conditions:** For general comfort and health, indoor temperature is often recommended between 20-25°C (68-77°F) and relative humidity between 40-60%.

5. CARE AND MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water.
- **Storage:** If storing the device for an extended period, keep it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Avoid Impact:** The device contains delicate mechanical components. Avoid dropping or subjecting it to strong impacts.
- **No User Serviceable Parts:** Do not attempt to open or repair the device. This may damage the internal mechanisms and void any potential warranty.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate readings	○ Device not stabilized. ○ Improper placement (direct sunlight, drafts, heat/moisture sources). ○ Extreme environmental conditions.	○ Allow 30 minutes for stabilization after placement. ○ Relocate the device to a more central and stable environment. ○ Ensure the environment is within the operating range of the device.
Needle not moving	○ No change in ambient conditions. ○ Device malfunction (rare for analog).	○ Verify if temperature/humidity in the room is actually stable. ○ If suspected malfunction, contact customer support.

7. SPECIFICATIONS

Model Number	TT-509-WH
Brand	TANITA
Type	Analog Temperature and Humidity Meter
Temperature Range	-30°C to 50°C (approximate, based on typical analog scales)
Temperature Accuracy	±2°C
Humidity Range	0% to 100% RH (approximate, based on typical analog scales)
Humidity Accuracy	±5% RH (typical for analog hygrometers)
Dimensions (W x H)	3.94" W x 6.0" H (10 cm W x 15 cm H)
Weight	4.6 ounces (130 grams)
Power Source	No batteries required (Analog Mechanical)
Mounting Type	Tabletop or Wall-mounted

8. Warranty and Support

TANITA products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official TANITA website. For technical support or inquiries, please contact TANITA customer service through their official channels.

TANITA Official Website: www.tanita.com

Related Documents - TT-509-WH

	[Pairing Your Tanita Scale with the My Tanita Healthcare App](#) A step-by-step guide to pairing your Tanita body composition scale with the My Tanita Healthcare app for seamless data syncing and health tracking.
	[Tanita BC-585F Body Composition Monitor User Manual](#) Comprehensive user manual for the Tanita BC-585F Body Composition Monitor, covering setup, features, operation, and troubleshooting. Learn how to accurately measure body composition, store personal data, and understand readings.
	[TANITA BF-033/034/040/055 Body Fat Scale with Health Meter: Instruction Manual](#) Comprehensive instruction manual for TANITA's BF-033, BF-034, BF-040, and BF-055 body fat scales. Learn about features, accurate measurement techniques, body fat criteria, safety guidelines, troubleshooting, and specifications.
	[TANITA nometa BB-105](#) TANITA nometa BB-105
	[Tanita Body Composition Scale: Measuring and Monitoring Guide](#) Learn how to get the most accurate body composition readings from your Tanita scale with these top tips for measurement and monitoring.

[Handleiding TANITA BC-333LE: Installatie en Gebruik Lichaamsanalyseweegschaal](#)

Start snel met uw TANITA BC-333LE lichaamsanalyseweegschaal. Deze gids behandelt installatie, meeteenheidwissel, locatiecode instellen en tips voor optimale metingen.