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La Crosse Technology 513-149

La Crosse Technology Indoor/Outdoor Thermometer & Atomic Clock (Model 513-149) User Manual

Introduction

This manual provides comprehensive instructions for the setup, operation, and maintenance of your La Crosse Technology Indoor/Outdoor Thermometer and Atomic Clock, model 513-149. This device features self-setting atomic time, automatic Daylight Saving Time adjustments, and displays both indoor and outdoor temperatures with trend indicators.

The atomic clock function automatically synchronizes with the WWVB radio signal from Fort Collins, Colorado, ensuring precise timekeeping. The wireless outdoor sensor transmits temperature data to the main unit, allowing for convenient monitoring of external conditions.

Package Contents

- La Crosse Technology Atomic Clock (Main Unit)
- Wireless Outdoor Temperature Sensor
- User Manual

Features

- **Atomic Time:** Self-setting time and date with automatic Daylight Saving Time (DST) updates.
- **Time Zones:** Seven time zone settings for continental United States.
- **Indoor Temperature:** Displays indoor temperature in Fahrenheit or Celsius. Range: 32°F to 122°F (0°C to 50°C).
- **Outdoor Temperature:** Displays outdoor temperature in Fahrenheit or Celsius via wireless sensor. Range: -4°F to 140°F (-20°C to 60°C).
- **Temperature Trend Arrows:** Indicates rising or falling temperature trends for both indoor and outdoor readings.
- **Low Battery Indicator:** Icons for both the main unit and outdoor sensor to indicate when batteries need replacement.
- **Wall-Mountable or Desk Stand:** Versatile placement options.

Setup

1. Battery Installation

The main unit requires two (2) AA alkaline batteries, and the outdoor sensor requires two (2) AA alkaline batteries. Ensure correct polarity when inserting batteries.

1. **Outdoor Sensor:** Open the battery compartment on the back of the outdoor sensor. Insert two fresh AA batteries. Close the compartment securely.
2. **Main Unit:** Open the battery compartment on the back of the main clock unit. Insert two fresh AA batteries. Close the compartment securely.

Note: It is recommended to insert batteries into the outdoor sensor first, then the main unit, to ensure proper synchronization.

2. Initial Power-Up and Atomic Time Synchronization

Upon battery installation, the main unit will automatically begin searching for the WWVB atomic time signal. A blinking antenna icon will appear on the display. This process can take several minutes to several hours, and often synchronizes best overnight. Once synchronized, the antenna icon will become solid, and the correct time and date will be displayed.

If the clock does not synchronize within 24 hours, try relocating the unit to a different area, preferably near a window, away from electronic devices that may cause interference.

3. Setting Time Zone and Daylight Saving Time (DST)

After atomic time synchronization, you may need to manually set your time zone. Refer to the buttons on the back of the unit for specific time zone adjustment controls. The clock is designed to automatically adjust for Daylight Saving Time, but this feature can typically be toggled on or off if needed.

4. Outdoor Sensor Placement

For accurate outdoor temperature readings, place the wireless sensor in a shaded, dry location, protected from direct sunlight and precipitation. Ensure it is within the effective transmission range of the main unit (typically up to 330 feet / 100 meters in open air, though walls and obstacles will reduce this range).



Image: La Crosse Technology Atomic Clock (Model 513-149) displayed in a home setting, mounted on a light gray wall above a wooden desk. The clock shows the time, date, and indoor/outdoor temperatures. A green desk lamp and a tissue box are also visible on the desk.

Operation

1. Reading the Display



Image: A detailed view of the La Crosse Technology Atomic Clock's digital display. The top section shows the time (12:34 PM), day (SAT), and date (2/16). The bottom section shows indoor temperature (70.1°F) and outdoor temperature (50.3°F), along with battery indicators and signal strength icons.

The large LCD display is divided into two main sections:

- **Top Section:** Displays the current time (with AM/PM indicator), day of the week, and date. The atomic signal icon (antenna) indicates successful synchronization.
- **Bottom Section:** Displays the indoor temperature (labeled 'IN') and the outdoor temperature (labeled 'OUT'). Small arrows next to the temperatures indicate whether the temperature is rising, falling, or stable. A wireless signal icon next to the outdoor temperature indicates successful communication with the outdoor sensor.

2. Temperature Trend Arrows

The trend arrows provide a quick visual indication of temperature changes:

- **Up Arrow (↑):** Temperature is rising.
- **Down Arrow (↓):** Temperature is falling.
- **No Arrow:** Temperature is stable.

3. Low Battery Indicator

A low battery icon will appear on the display for either the main unit or the outdoor sensor when their respective batteries need to be replaced. Promptly replace batteries to ensure continuous and accurate operation.

Maintenance

1. Battery Replacement

When the low battery indicator appears, replace all batteries in the affected unit (main clock or outdoor sensor) with fresh, high-quality alkaline batteries. Do not mix old and new batteries, or different types of batteries.

2. Cleaning

Clean the display and casing of the main unit and outdoor sensor with a soft, damp cloth. Avoid using abrasive cleaners or solvents, as these can damage the plastic and electronic components.

3. Outdoor Sensor Care

Periodically check the outdoor sensor for any debris, dust, or insect nests that might obstruct its vents or affect its performance. Ensure it remains in a protected, shaded location.

Troubleshooting

- **No Outdoor Temperature Reading:**
  - Ensure batteries are correctly installed in both the main unit and the outdoor sensor.
  - Verify the outdoor sensor is within range of the main unit. Reduce obstacles between the two units.
  - Press the TX button on the outdoor sensor to manually send a signal.
  - Remove batteries from both units, wait 1 minute, then reinsert batteries into the sensor first, then the main unit.
- **Atomic Time Not Synchronizing:**
  - Relocate the main unit near a window, away from large metal objects or electronic devices that may cause interference.
  - Allow up to 24 hours for the clock to receive the WWVB signal, especially during initial setup or after battery changes. Synchronization often occurs best overnight.
  - Manually initiate a signal search if available (refer to unit buttons).
- **Inaccurate Temperature Readings:**
  - Ensure the outdoor sensor is placed in a shaded area, away from direct sunlight, heat sources, or reflective surfaces.
  - Check for any obstructions around the sensor's vents.
  - Replace batteries in the sensor if the low battery indicator is on.
- **Incorrect Time Zone:**
  - Manually adjust the time zone setting on the main unit after atomic synchronization.

Specifications

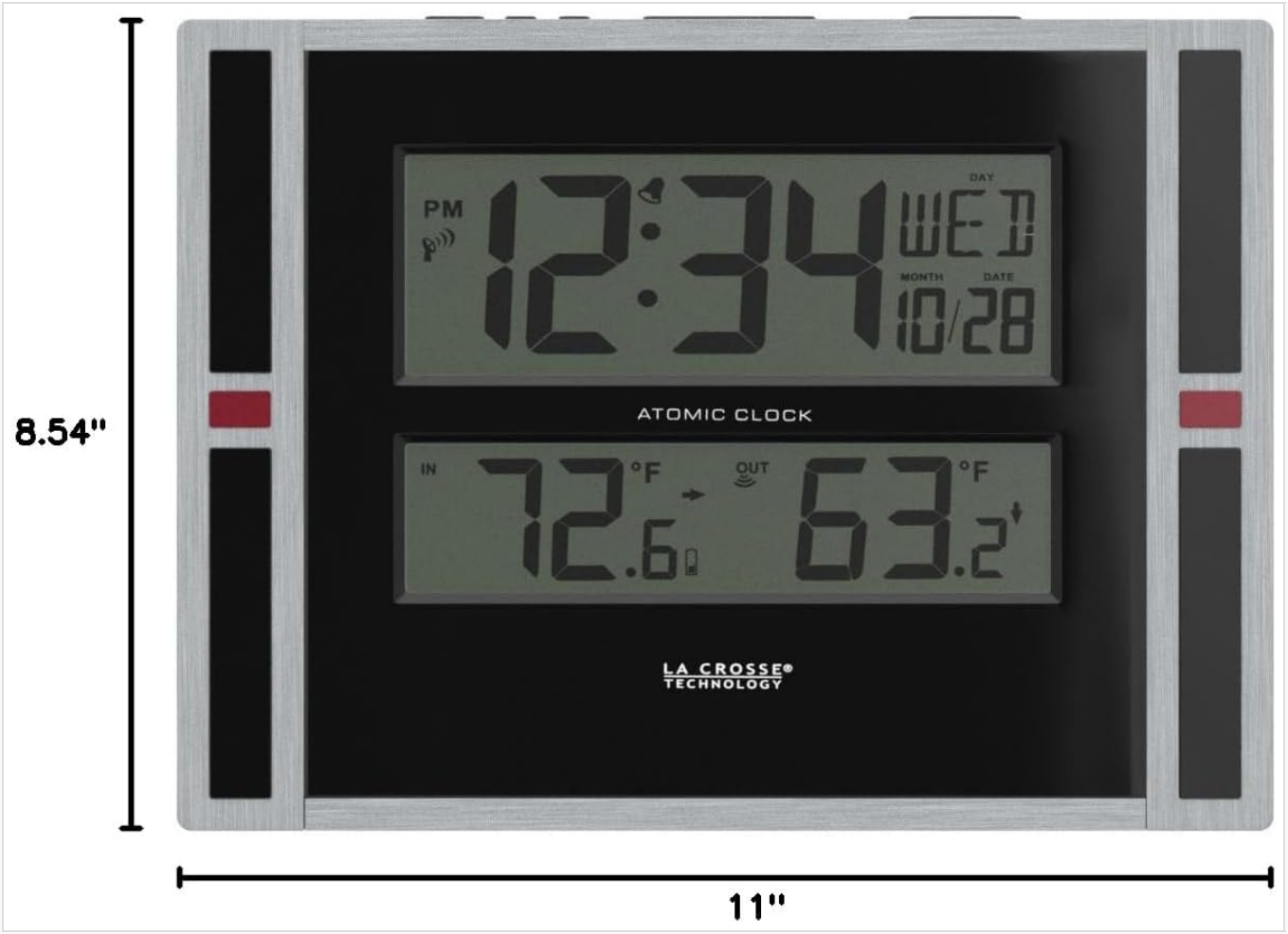

Image: The La Crosse Technology Atomic Clock (Model 513-149) with its physical dimensions indicated. The clock measures 11 inches in width and 8.54 inches in height.

Feature	Detail
Model Number	513-149
Display Type	Digital
Indoor Temperature Range	32°F to 122°F (0°C to 50°C)
Outdoor Temperature Range	-4°F to 140°F (-20°C to 60°C)
Power Source (Main Unit)	2 AA Batteries (not included)
Power Source (Outdoor Sensor)	2 AA Batteries (not included)
Product Dimensions	11" W x 8.54" H
Item Weight	1.75 Pounds
Material	Plastic
Operation Mode	Atomic

Warranty

This product comes with a 1-year limited warranty. For specific details regarding warranty coverage and claims, please refer to the warranty information provided with your purchase or contact La Crosse Technology customer support.

Support

For further assistance, troubleshooting, or inquiries, please contact La Crosse Technology's USA-based support team. Additional resources and video tutorials may be available on the official La Crosse Technology website.

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Question

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Details

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

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