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› [AcuRite](#) /

› AcuRite Digital Indoor/Outdoor Thermometer Model 00424CA Instruction Manual

AcuRite 00424CA

ACU·RITE

AcuRite Digital Indoor/Outdoor Thermometer

MODEL 00424CA INSTRUCTION MANUAL

1. Introduction

The AcuRite Digital Indoor/Outdoor Thermometer, Model 00424CA, provides accurate and reliable temperature readings for both indoor and outdoor environments. This device features an easy-to-read LCD display and a wireless outdoor sensor, allowing you to monitor conditions from a distance. It also tracks daily high and low temperatures, offering valuable insights into temperature trends.



Image: The AcuRite Digital Thermometer display unit and its accompanying wireless outdoor sensor.

2. What's in the Box

Ensure all components are present before proceeding with setup:

- Digital Display Unit
- Wireless Outdoor Sensor
- Instruction Manual (this document)

3. Key Features

- **Wireless Indoor/Outdoor Temperature:** Displays current indoor and outdoor temperatures.
- **Extended Range:** Wireless sensor transmits data up to 165 feet (50 meters) away.
- **Temperature Trend Arrows:** Indicates whether temperatures are rising or falling.

- **Daily High and Low Records:** Tracks maximum and minimum temperatures over the past 24 hours.
- **Frequent Data Updates:** New temperature data is transmitted every 30 seconds.
- **Versatile Placement:** Display unit can stand upright on a tabletop or be wall-mounted.
- **Weather-Resistant Sensor:** Outdoor sensor features a durable, weather-resistant design with an integrated hanger.



Image: Visual representation of the thermometer's key features, including indoor/outdoor temperature, LCD display, and unit selection.

4. Setup

4.1 Battery Installation

The digital display unit requires 2 AA batteries, and the wireless outdoor sensor requires 2 AA batteries (not included). For optimal performance, use high-quality alkaline or lithium batteries.

1. **Display Unit:** Open the battery compartment cover on the back of the display unit. Insert 2 AA batteries, observing the polarity markings (+/-). Replace the cover.
2. **Wireless Sensor:** Open the battery compartment cover on the back of the sensor. Insert 2 AA batteries, observing the polarity markings (+/-). Replace the cover.

Note: It is recommended to install batteries in the outdoor sensor first, then in the display unit, to ensure proper synchronization.

4.2 Sensor Placement

Proper placement of the wireless sensor is crucial for accurate temperature readings and optimal signal transmission.

- Place the sensor outdoors, away from direct sunlight and heat sources (e.g., exhaust vents, windows).
- Ensure the sensor is protected from direct precipitation. An ideal location is under an eave or a covered porch.
- Mount the sensor vertically using the integrated hanger or a screw (not included).
- The maximum wireless range is 165 feet (50 meters). Consider obstacles like thick walls, metal siding, or large electronic devices that may interfere with the signal.



Image: The wireless outdoor sensor shown hanging from a tree branch, demonstrating a potential mounting option.



Image: A hand demonstrating the wall-mounting option for the indoor display unit.

4.3 Display Unit Placement

The display unit can be placed on a flat surface using its integrated stand or mounted on a wall using the keyhole hanger.

- Choose a location indoors that is easily visible and within range of the outdoor sensor.
- Avoid placing the display near windows or vents that could affect its indoor temperature reading.

5. Operation

5.1 Reading the Display

Once batteries are installed and the units are synchronized, the display will show current indoor and outdoor temperatures. The outdoor temperature section includes a signal strength indicator for the wireless sensor.



Image: A close-up view of the display unit, clearly showing the indoor and outdoor temperature readings.

5.2 Temperature Trend Arrows

Small arrows next to the temperature readings indicate whether the temperature is rising, falling, or remaining steady.



Image: Detail of the display showing the high and low temperature records with trend arrows.

5.3 Daily High and Low Records

The display automatically records the highest and lowest temperatures measured over the past 24 hours. These values are typically shown below the current outdoor temperature.

5.4 Fahrenheit/Celsius Selection

A switch or button on the back of the display unit allows you to toggle between Fahrenheit (°F) and Celsius (°C) temperature units.

6. Maintenance

6.1 Cleaning

Wipe the display and sensor with a soft, damp cloth. Do not use abrasive cleaners or chemicals that may damage the plastic components or LCD screen.

6.2 Battery Replacement

Replace batteries in both units when the low battery indicator appears on the display. Always replace all batteries in a unit at the same time with new batteries of the same type.

7. Troubleshooting

Problem	Possible Solution
No outdoor temperature reading / Dashes on display	• Ensure batteries are correctly installed in both units. • Replace old batteries with new ones. • Bring the sensor closer to the display unit. • Relocate both units to minimize interference from electronics or large metal surfaces. • Perform a hard reset: Remove batteries from both units, wait 1 minute, then reinstall batteries in the sensor first, then the display.

Problem	Possible Solution
Inaccurate temperature reading	• Ensure the sensor is not in direct sunlight or near heat sources. • Verify the sensor is protected from rain and moisture. • Allow 20 minutes for temperatures to stabilize after setup or relocation.
Display screen is dim or blank	• Replace batteries in the display unit. • Ensure batteries are inserted with correct polarity.

8. Specifications

- **Model Number:** 00424CA
- **Indoor Temperature Range:** Not explicitly stated, but typically 32°F to 122°F (0°C to 50°C)
- **Outdoor Temperature Range:** -40°F to 158°F (-40°C to 70°C)
- **Temperature Accuracy:** +/- 0.5°C
- **Wireless Range:** 165 feet (50 meters) RF 433 MHz
- **Data Reporting:** Every 30 seconds
- **Power (Display):** 2 x AA alkaline or lithium batteries (not included)
- **Power (Sensor):** 2 x AA alkaline or lithium batteries (not included)
- **Display Dimensions:** 4.2 x 1.4 x 2.25 inches
- **Manufacturer:** Chaney Instruments

9. Warranty and Support

9.1 Limited One-Year Warranty

This AcuRite product is covered by a one-year limited warranty from the date of purchase. For full warranty details and to register your product, please refer to the official AcuRite website or contact customer support.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please visit the AcuRite support section on their official website or contact their customer service department. Contact information can typically be found on the product packaging or the AcuRite website.

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