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› AcuRite 01090M Multi-Sensor Thermometer User Manual

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Model: 01090M | Brand: AcuRite

INTRODUCTION

The AcuRite 01090M Multi-Sensor Digital Indoor/Outdoor Thermometer provides precise and reliable temperature information for up to four distinct areas. This system includes a main display unit with a built-in temperature sensor and three wireless remote sensors. It is designed to monitor temperatures both indoors and outdoors, offering features such as daily high and low records and a 12-hour clock. The display can automatically cycle through sensor readings or allow manual selection for specific locations.



Image: The AcuRite 01090M system, showing the main display unit on the left and the three wireless remote sensors on the right.

PACKAGE CONTENTS

- Digital Display Unit (with built-in temperature sensor)
- 3 Wireless Remote Temperature Sensors
- Instruction Manual (this document)

Note: Batteries are not included. Please refer to the Specifications section for battery requirements.

SETUP

1. Battery Installation

For the Digital Display Unit:

1. Remove the battery compartment cover on the back of the display unit.
2. Insert 3 "AA" alkaline batteries (not included) according to the polarity indicators (+ and -).
3. Replace the battery compartment cover.

For Each Wireless Remote Sensor:

1. Remove the battery compartment cover on the back of the sensor.
2. Insert 2 "AA" alkaline or lithium batteries (not included) according to the polarity indicators (+ and -). *Lithium batteries are recommended for outdoor sensors in cold climates (below -4°F / -20°C).*
3. Replace the battery compartment cover.

2. Sensor Placement

The wireless sensors are designed for both indoor and outdoor use. For optimal performance, consider the following:

- **Outdoor Placement:** Choose a location that is out of direct sunlight and direct precipitation. A north-facing wall or under an eave is ideal. The sensor has an integrated hanger for easy mounting.
- **Indoor Placement:** Place sensors in areas where you want to monitor temperature, such as a basement, attic, garage, or another room.
- **Range:** The sensors have a wireless range of up to 330 feet (100 meters) from the main display unit. Walls, large metal objects, and electronic devices can reduce this range.



Image: A wireless remote sensor hanging from a tree branch, demonstrating outdoor placement.

3. Synchronization

Once batteries are installed in both the display unit and the sensors, the units should automatically synchronize. The display will show readings from the built-in sensor and the three remote sensors. If a sensor does not connect, try moving it closer to the display unit or re-inserting its batteries.

OPERATING INSTRUCTIONS

Display Overview





Image: A detailed view of the digital display, showing current temperature, time, and a lower temperature reading.

The main display unit shows the following information:

- **Top Temperature:** Current temperature from the selected remote sensor or the display's built-in sensor.
- **Middle Display:** Current time (12-hour format).
- **Bottom Temperature:** Current temperature from the display's built-in sensor.
- **Sensor Indicator:** A small icon or number indicating which remote sensor's reading is currently displayed in the top section.

Cycling Through Sensor Readings

The display unit can be set to automatically cycle through the readings from the three remote sensors, or you can manually select which sensor's reading to view.

- **Manual Cycle:** Press the "CHANNEL" or "SENSOR" button (refer to your specific unit's button labels) to manually switch between the readings of the three remote sensors (1, 2, 3).
- **Auto-Cycle:** Press and hold the "CHANNEL" or "SENSOR" button until an auto-cycle icon appears on the display. The display will then automatically rotate through the readings from each connected remote sensor.

Setting the Clock

To set the time on the display unit:

1. Locate the "SET" or "CLOCK" button on the back or side of the display unit.
2. Press and hold the "SET" button until the hour digits begin to flash.
3. Use the "UP" or "DOWN" arrows (or similar buttons) to adjust the hour.
4. Press "SET" again to confirm the hour and move to the minute setting.
5. Adjust the minutes using the "UP" or "DOWN" arrows.
6. Press "SET" one last time to confirm the minutes and exit time setting mode.

Fahrenheit / Celsius Selection

To switch between Fahrenheit (°F) and Celsius (°C) temperature units, locate the "°F/°C" button on the back of the display unit and press it. The display will immediately update to the selected unit.

Daily High and Low Records

The display unit tracks the daily high and low temperatures for both the built-in sensor and each of the remote sensors. To

view these records, press the "HIGH/LOW" button (or similar) repeatedly. The display will cycle through the high and low records for each sensor. Records typically reset automatically every 24 hours.

MAINTENANCE

Cleaning Instructions

To ensure the longevity and accuracy of your thermometer, follow these cleaning guidelines:

- Wipe the display unit and sensors with a soft, damp cloth.
- Do not use abrasive cleaners or chemicals, as these may damage the plastic components or the display screen.
- Avoid submerging the units in water. While sensors are weather-resistant, they are not waterproof.

Battery Replacement

Replace batteries in both the display unit and remote sensors 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 recommended type. Dispose of old batteries responsibly according to local regulations.

Sensor Care

Although the remote sensors are weather-resistant, prolonged exposure to extreme conditions (e.g., direct heavy rain, snow accumulation, or intense direct sunlight) can affect their lifespan. Periodically check the sensor's placement to ensure it remains protected from the harshest elements.

TROUBLESHOOTING

Problem	Possible Solution
No temperature reading from a remote sensor.	• Ensure batteries are correctly installed in both the display unit and the sensor. • Replace old batteries with new ones. • Move the sensor closer to the display unit. • Check for sources of interference (e.g., large metal objects, other electronic devices). • Press the "RESET" button on both the display unit and the sensor (if available) to re-establish connection.
Inaccurate temperature readings.	• Ensure sensors are not in direct sunlight or near heat sources/vents. • Verify that the sensor is placed in a well-ventilated area. • Allow time for the sensor to acclimate to the new environment (up to 20 minutes).
Display screen is blank or dim.	• Check battery orientation and ensure they are fresh. • Replace all batteries in the display unit.

SPECIFICATIONS

Feature	Detail
Model Number	01090M
Temperature Range (Sensors)	-40°F to 158°F (-40°C to 70°C)
Wireless Range	330 feet (100 meters)
Connectivity Technology	433 MHz
Display Type	LCD
Power Source (Display)	3 x AA batteries (not included)
Power Source (Sensors)	2 x AA batteries per sensor (not included)
Display Dimensions (H x W x D)	5.7 inches x 2.8 inches x 1.8 inches
Material	Plastic
Product Care	Wipe Clean



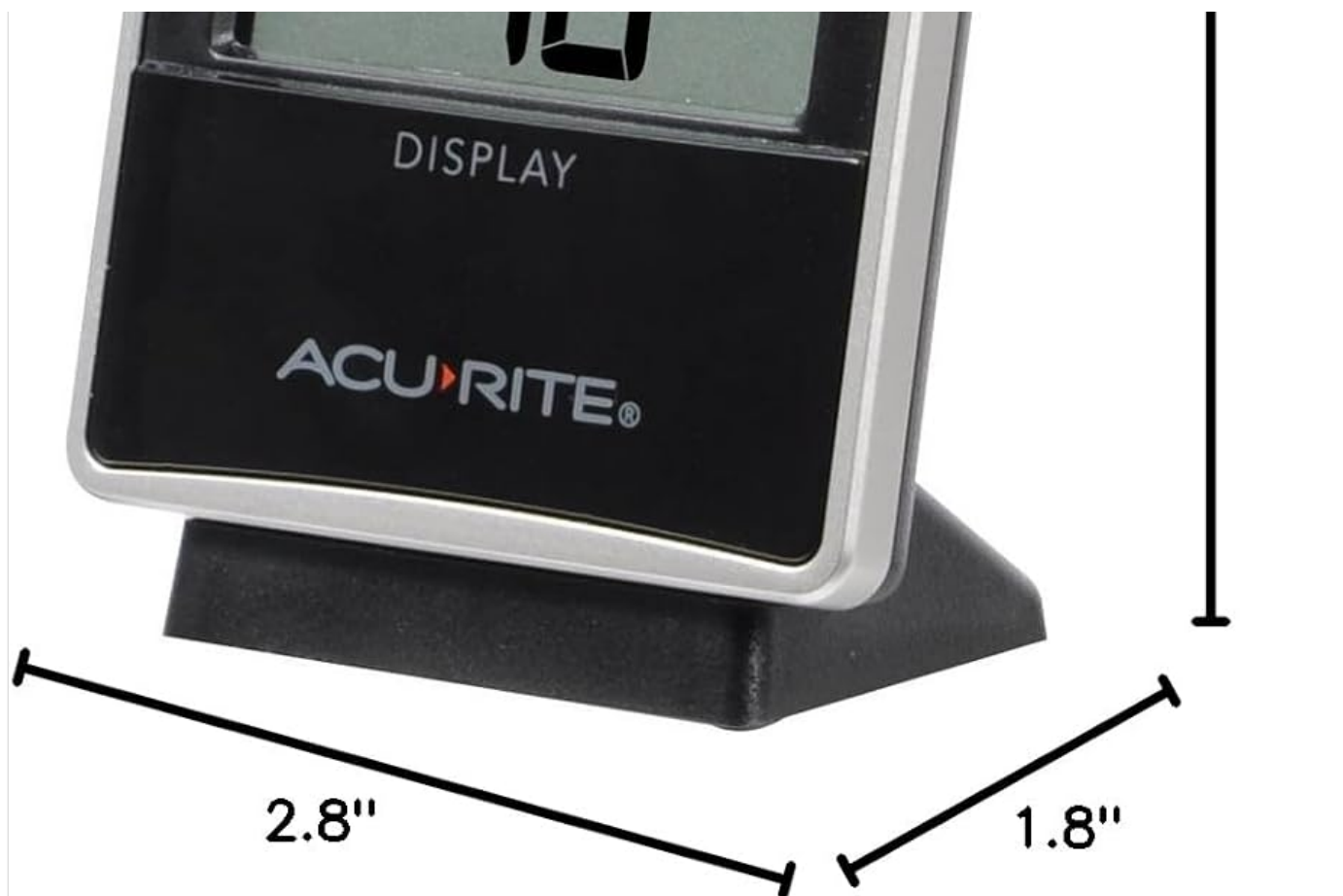


Image: The main display unit with its height, width, and depth dimensions indicated.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the official AcuRite website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

AcuRite Official Website: www.acurite.com

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