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> AcuRite Atlas 01007M Weather Station Instruction Manual

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INSTRUCTION MANUAL

Model: 01007M | Brand: AcuRite

Introduction

The AcuRite Atlas Personal Weather Station provides comprehensive hyperlocal weather data directly to your devices. This system includes lightning detection, UV index, temperature, humidity, wind speed, wind direction, rainfall, light intensity, and barometric pressure. This manual will guide you through the setup, operation, and maintenance of your weather station to ensure optimal performance and accurate readings.



Image: The AcuRite Atlas 01007M outdoor sensor unit, designed for comprehensive weather data collection.

Key Features

- **Real-Time Weather Conditions:** Monitors indoor and outdoor temperature, humidity, wind speed, direction, UV, light intensity, pressure trends, and rain totals.
- **Lightning Detection:** Detects lightning strikes up to 25 miles away, providing early warnings for potential thunderstorm activity.
- **Remote Monitoring with My AcuRite:** Direct Wi-Fi signal allows for remote monitoring via desktop, Android, iPhone, or tablet without a separate hub.
- **High-Definition (HD) Touchscreen Display:** Provides a clear and intuitive interface for viewing weather data.
- **Custom Alerts:** Set personalized alerts to be notified when critical weather conditions change.
- **Weather Underground Integration:** Share your real-time weather details with the Weather Underground online community.



Image: The AcuRite Atlas outdoor sensor unit, highlighting its precise measurements, remote access, and custom alert capabilities.

What's Included

Your AcuRite Atlas 01007M Weather Station package should contain the following components:

- AcuRite Atlas Outdoor Sensor Unit
- HD Touchscreen Display Unit
- AcuRite Access Unit (for Wi-Fi connectivity)
- Lightning Detection Module
- Power Adapter for Display
- Instruction Manual (this document)

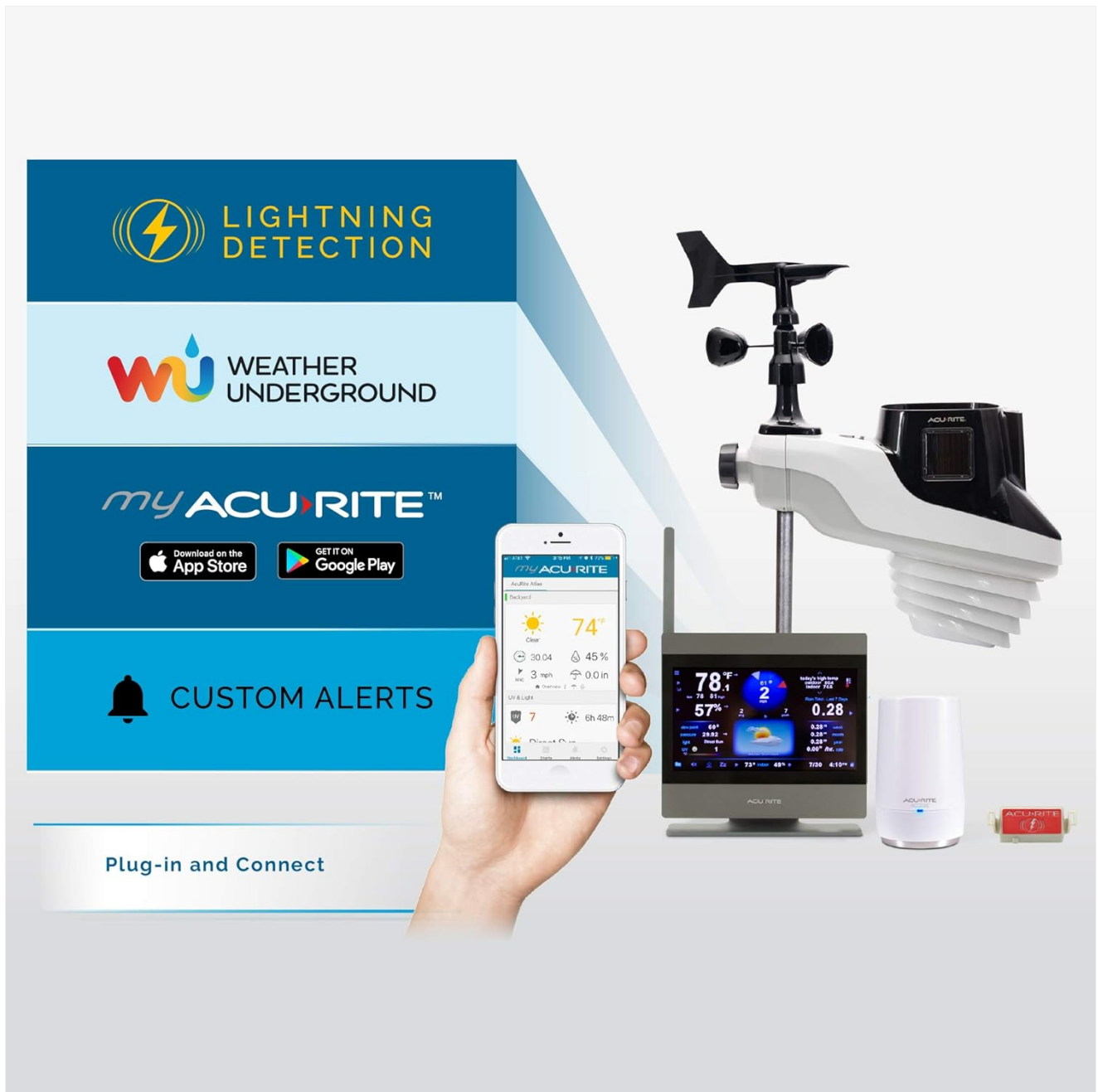


Image: An overview of the AcuRite Atlas system components, including the outdoor sensor, HD display, Access unit, and a smartphone displaying the My AcuRite app.

Setup Guide

1. Unpacking and Initial Inspection

Carefully remove all components from the packaging. Inspect each item for any signs of damage. Retain packaging for future transport or storage.

2. Outdoor Sensor Placement

For accurate readings, the AcuRite Atlas outdoor sensor should be mounted in an open area, away from obstructions that could affect wind, rain, or temperature readings. Ensure it is at least 5 feet off the ground and level. The solar panel should face south for optimal charging.



Image: The AcuRite Atlas outdoor sensor unit mounted on a pole in an outdoor environment, demonstrating proper placement.

3. Lightning Detection Module Installation

Install the lightning detection module into the designated slot on the AcuRite Atlas outdoor sensor unit. Ensure it is securely fastened.



Image: The AcuRite lightning detection module, a rectangular unit with a red face and a lightning bolt icon.

4. HD Display Setup

Connect the power adapter to the HD display unit and plug it into a wall outlet. The display will power on and begin searching for the outdoor sensor signal. Place the display in a central location within range of the outdoor sensor.



Image: The AcuRite HD display unit showing a screen with 'Today's Records' for various weather parameters.

5. AcuRite Access and Wi-Fi Connection

The AcuRite Access unit enables Wi-Fi connectivity for remote monitoring. Connect the Access unit to your home router via an Ethernet cable and plug in its power adapter. Follow the instructions in the My AcuRite app or website to connect the Access unit to your Wi-Fi network and register your weather station.

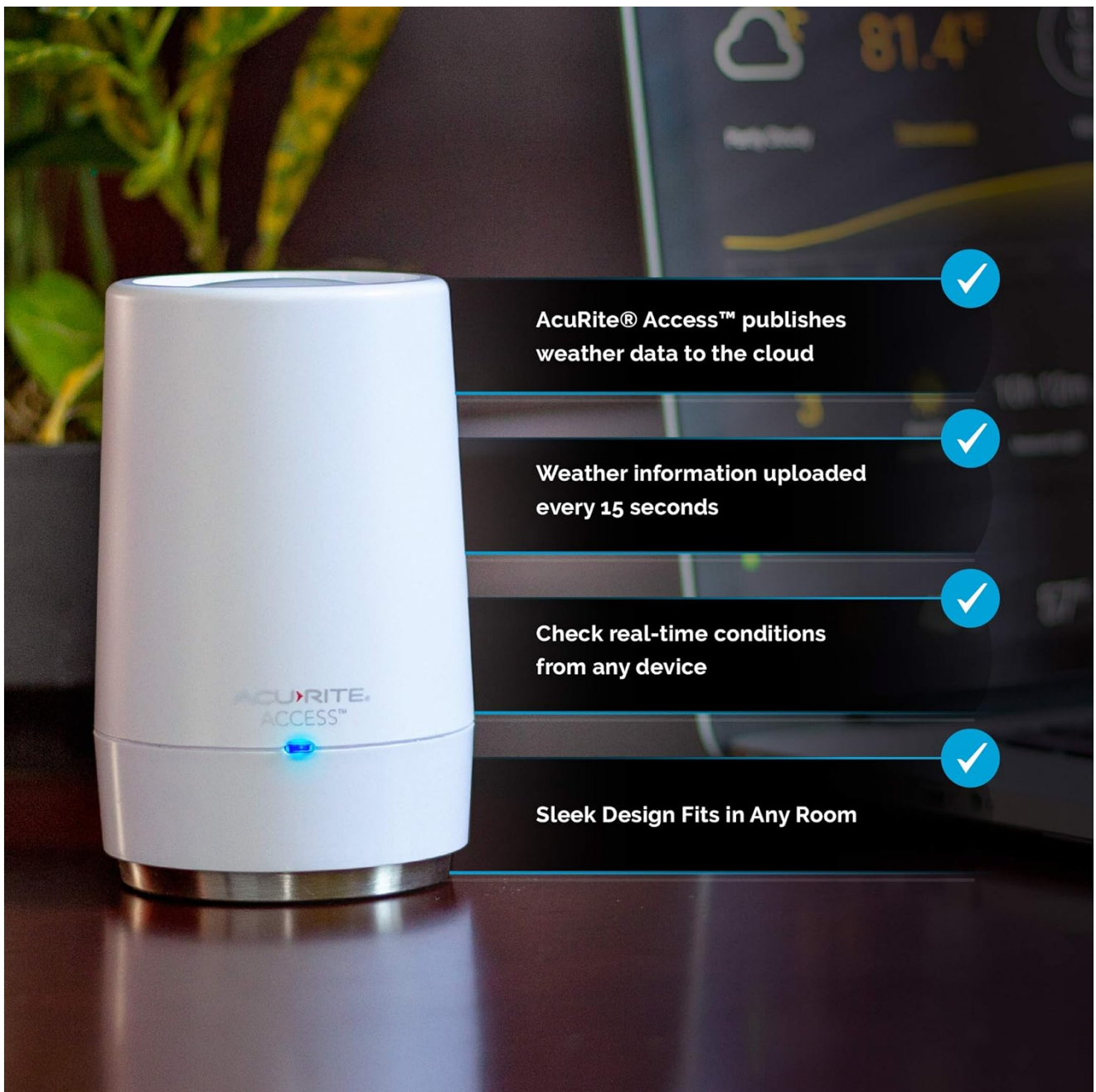


Image: The AcuRite Access unit, a white cylindrical device, highlighting its function in publishing weather data to the cloud and enabling remote monitoring.

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Video: This video demonstrates the AcuRite Atlas Weather Station's remote monitoring capabilities via the AcuRite Access unit, showing how to connect and view data from various devices.

Operation

Viewing Data on the HD Display

The HD display provides an intuitive interface to view current and historical weather data. Use the touchscreen to navigate between different screens, such as current conditions, daily/weekly/monthly/yearly rainfall totals, and UV/light intensity levels.



Image: The AcuRite HD display unit showing a detailed overview of current weather conditions, including temperature, humidity, barometric pressure, wind, rain totals, and UV/light intensity.

Remote Monitoring with My AcuRite

Once your AcuRite Access unit is set up and connected to Wi-Fi, you can monitor your weather station's data from anywhere using the My AcuRite app or website. This platform allows you to view real-time conditions, historical data, and set up custom alerts.

Custom Alerts

Configure custom alerts through the My AcuRite app or website. You can set thresholds for temperature, wind speed, rainfall, and lightning strikes to receive notifications when these conditions are met or exceeded.

Maintenance

- **Battery Replacement:** The outdoor sensor unit requires batteries (not included). Check battery levels periodically and replace them when indicated on the display or app. Use high-quality alkaline or lithium batteries for best performance, especially in cold climates.

- **Sensor Cleaning:** Periodically clean the outdoor sensor unit to ensure accurate readings. Remove any debris from the rain collector, wind cups, and wind vane. Gently wipe the solar panel and sensor housing with a soft, damp cloth. Avoid abrasive cleaners.
- **Firmware Updates:** Ensure your AcuRite Access unit and display firmware are up-to-date for optimal performance and new features. Updates are typically managed through the My AcuRite platform.

Troubleshooting

Problem	Possible Cause	Solution
No outdoor sensor data on display	Batteries low or dead; sensor out of range; interference.	Replace batteries in outdoor sensor. Move display closer to sensor. Relocate sensor to avoid interference.
Inaccurate temperature/humidity	Sensor exposed to direct sunlight or heat source; blocked airflow.	Ensure sensor is in a shaded, well-ventilated area. Clean sensor housing.
Wind speed/direction incorrect	Obstructions near sensor; debris in wind cups/vane.	Clear obstructions around the sensor. Clean wind cups and vane. Ensure sensor is level.
No data on My AcuRite app/website	AcuRite Access not connected to internet; Access unit not linked to account.	Check Ethernet and power connections for AcuRite Access. Verify internet connectivity. Re-link Access unit in My AcuRite settings.

Specifications

Feature	Detail
Brand	AcuRite
Model	01007M
Connectivity Technology	Wi-Fi
Power Source	Battery Powered (Outdoor Sensor), AC Power Adapter (Display/Access)
Material	Hard Plastic
Display Type	Touchscreen
Temperature Accuracy	0.56 °C
Upper Temperature Range	158 Degrees Fahrenheit
Special Feature	Lightning Detection
Item Weight	7.5 Pounds

Important Safety Information

- Do not expose the display unit to extreme temperatures, direct sunlight, or moisture.
- Ensure all cables are routed safely to prevent tripping hazards.

- Use only the specified power adapters.
- Keep batteries out of reach of children. Dispose of old batteries responsibly according to local regulations.
- Do not attempt to open or repair the units yourself, as this will void the warranty.

Warranty and Support

AcuRite products are designed for superior, long-lasting quality. For warranty information, technical support, or to register your product, please visit the official AcuRite website or contact their customer service. Details can typically be found on the AcuRite packaging or their website.

Online Support: www.acurite.com/support

Customer Service: Refer to the AcuRite website for contact numbers and hours of operation.