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Raddy WF-120C

Raddy WF-120C Professional Wi-Fi Weather Station User Manual

Model: WF-120C

1. Introduction

The Raddy WF-120C Professional Wi-Fi Weather Station provides comprehensive weather monitoring for your home or garden. This system includes a 10-inch digital color display console and a 7-in-1 outdoor sensor, designed to deliver accurate and real-time weather data.

Package Contents

- Raddy WF-120C Display Console
- 7-in-1 Outdoor Sensor
- Mounting Hardware (screws, pole mount)
- USB-C Power Adapter
- User Manual (this document)

Image: Overview of the Raddy WF-120C Weather Station components, including the display console, the 7-in-1 outdoor sensor, and various mounting accessories.

2. Setup and Installation

2.1 Powering the Display Console

The display console can be powered by the included USB-C power adapter or by 2xAA batteries (not included). For continuous backlight operation, use the power adapter. Batteries provide backup power and allow for portable use, with the backlight turning off after 15 seconds to conserve energy.

Image: The display console illustrating both the USB-C power adapter connection for continuous power and the battery compartment for AA batteries, which provide portable power.

2.2 Installing the 7-in-1 Outdoor Sensor

The outdoor sensor measures temperature, humidity, wind speed, wind direction, rainfall, UV index, and light intensity. Proper placement is crucial for accurate readings.

1. **Choose a Location:** Select an open area free from obstructions (buildings, trees) that could interfere with wind or rain measurements. The sensor has a 100m transmission range to the console.
2. **Mounting Options:** The sensor can be mounted on a pole or a flat surface. Ensure it is level for accurate rain gauge readings. If mounting on a pole, a minimum diameter of 2.4 cm (0.9 inches) is recommended.
3. **Battery Installation:** Install 3xAA batteries (not included) into the outdoor sensor's battery compartment. Ensure correct polarity.
4. **Sensor Details:** Under the battery cover, you will find a reset button, an LED indicator, and a manual transmit signal button.

Image: Illustrations demonstrating different mounting methods for the outdoor sensor (on top, on pole, on side) and a detailed view of the sensor's internal components, including the battery compartment, reset button, LED indicator, and manual transmit button.

2.3 Initial Synchronization

Once both the console and sensor are powered, they should automatically attempt to connect. Allow a few minutes for the sensor to transmit data to the console. If connection fails, refer to the Troubleshooting section.

3. Operating the Weather Station

3.1 Display Console Overview

The 10-inch HTN screen displays a wide range of weather metrics. Familiarize yourself with the layout:

- **Outdoor Data:** Temperature, humidity, wind speed/direction, rainfall, UV index, light intensity.
- **Indoor Data:** Temperature, humidity, barometric pressure.
- **Forecast:** 12-hour weather prediction based on barometric pressure trends.
- **Time & Date:** Automatically synced via Wi-Fi.
- **Other Metrics:** Dew point, feels-like temperature, wind chill, heat index.

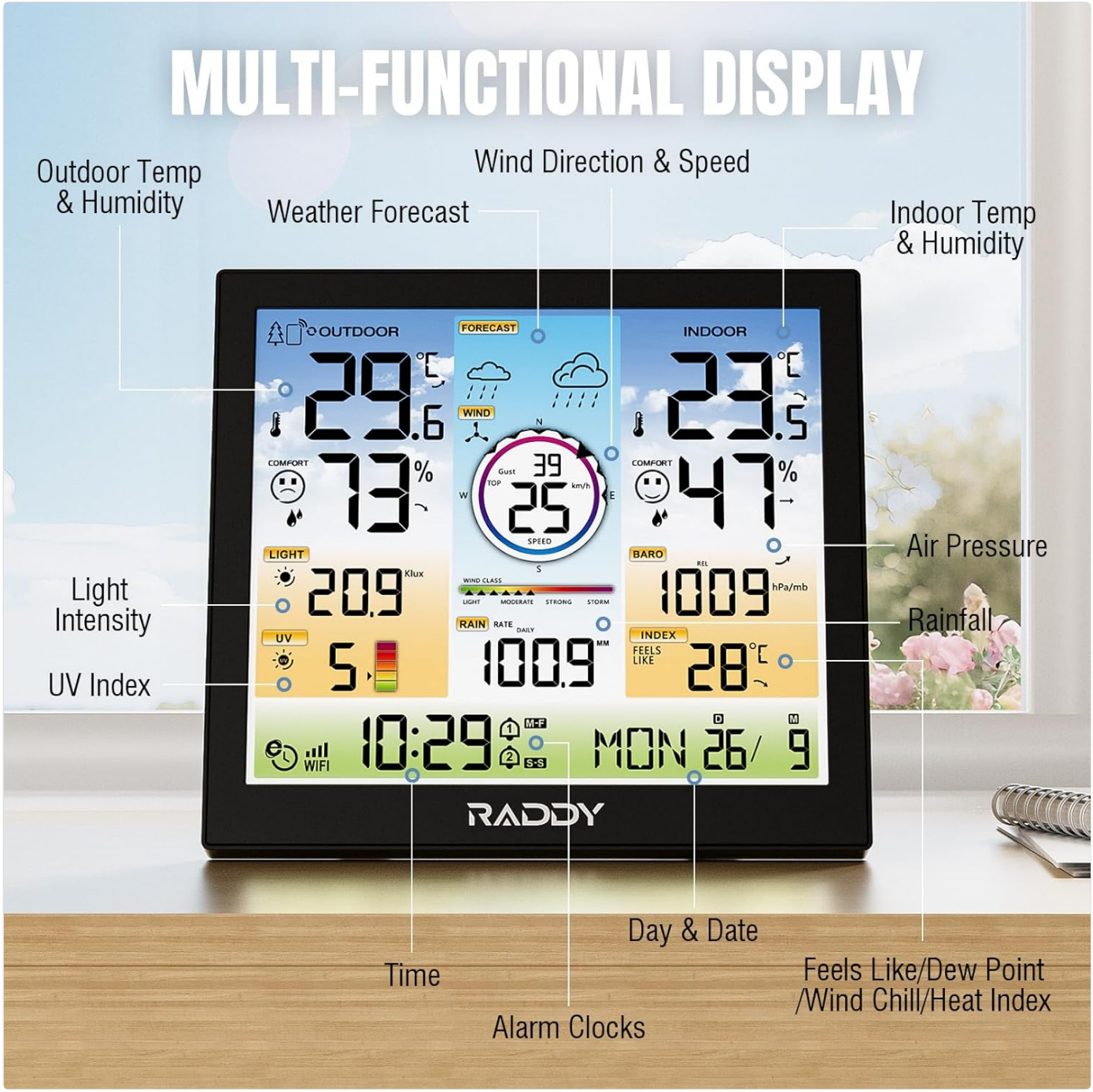

Image: A detailed view of the Raddy WF-120C display console, highlighting and labeling all the various data points displayed, such as outdoor temperature, wind speed, indoor humidity, air pressure, and time.

3.2 Wi-Fi Connectivity and Data Upload

The WF-120C supports Wi-Fi connectivity to upload your live weather data to online platforms like Weather Underground and WeatherCloud. This allows you to monitor your home weather from anywhere and access historical trends.

1. **Create Accounts:** Register accounts on Weather Underground and/or WeatherCloud. Obtain your station ID and API key from these services.
2. **Connect to Console's Wi-Fi:** The display console will broadcast its own Wi-Fi network during setup. Connect your smartphone or computer to this network.
3. **Access Setup Page:** Open a web browser and navigate to the IP address provided by the console (refer to the on-screen instructions or manual for the specific IP).
4. **Configure Wi-Fi and API:** On the setup page, select your home Wi-Fi network, enter its password, and input your Weather Underground/WeatherCloud station ID and API key.

5. **Confirm Connection:** Once configured, the console will connect to your home Wi-Fi and begin uploading data. The time will automatically sync.

Image: The Raddy WF-120C display console shown with various devices (laptop, tablet, smartphone) connected to online weather services like Weather Underground and WeatherCloud, illustrating its Wi-Fi synchronization capabilities.

3.3 12-Hour Weather Forecast

The station provides a 12-hour weather forecast based on local barometric pressure trends. For improved accuracy, allow the station to collect data for 1-2 weeks after initial setup.

Image: The display console showing different weather forecast icons, including sunny, mostly cloudy, cloudy, rainy, thunder rainy, and snowy, indicating the station's predictive capabilities.

3.4 Backlight and Night Mode

The display features 5 adjustable brightness levels. An automatic night mode can be configured to dim the screen during specific hours for comfortable viewing.

Image: The display console demonstrating its 5-level backlight adjustment (High, Middle, Low, Night, Closed) and the automatic night mode feature, which dims the screen at a set time.

3.5 Dual Alarm Clocks

The console includes dual alarm clocks that can be set for weekdays and weekends, providing convenience beyond weather monitoring.

Image: The display console illustrating its dual alarm clock feature, with separate settings for weekdays and weekends, enhancing its utility as a household device.

4. Maintenance

Regular maintenance ensures the longevity and accuracy of your weather station.

- **Clean the Rain Gauge:** Periodically check and clean the tipping bucket mechanism of the rain gauge to prevent blockages from debris.
- **Check Wind Vane/Anemometer:** Ensure the wind vane and anemometer cups spin freely. Remove any obstructions like spiderwebs or leaves.
- **Battery Replacement:** Replace batteries in the outdoor sensor and console (if using battery power) as needed, typically annually or when low battery indicators appear.
- **Clean Display Console:** Use a soft, dry cloth to clean the display screen. Avoid abrasive cleaners.

5. Troubleshooting

If you encounter issues with your Raddy WF-120C Weather Station, try the following solutions:

Problem	Possible Cause / Solution
No outdoor data displayed / Sensor not connecting	Ensure outdoor sensor batteries are correctly installed and charged. Press the reset button on the outdoor sensor (under battery cover). Ensure the console and sensor are within the 100m transmission range and free from major obstructions. Temporarily bring the sensor closer to the console to re-establish connection.
Wi-Fi connection issues / Data not uploading	Verify your home Wi-Fi password and network name (SSID). Ensure correct Weather Underground/WeatherCloud station ID and API key are entered. Restart the display console and try the Wi-Fi setup process again. Check your router settings; some routers may block new device connections.

Problem	Possible Cause / Solution
Inaccurate temperature/humidity readings	Ensure the outdoor sensor is not in direct sunlight or near heat sources. Verify the indoor console is not near heat/cold sources (e.g., windows, vents).
Rainfall readings are incorrect or zero	Check if the rain gauge tipping bucket is obstructed by debris. Ensure the outdoor sensor is mounted level.

6. Specifications

Feature	Detail
Model Number	WF-120C
Display Type	10" Digital Color HTN Display
Outdoor Sensor	7-in-1 (Temperature, Humidity, Wind Speed, Wind Direction, Rainfall, UV, Light Intensity)
Transmission Range	Up to 100m (330ft)
Connectivity	Wi-Fi (Weather Underground, WeatherCloud)
Power Source (Console)	USB-C Power Adapter or 2xAA Batteries (not included)
Power Source (Sensor)	3xAA Batteries (not included)
Temperature Accuracy	0.5 °C
Special Features	12-Hour Weather Forecast, Adjustable Backlight (5 levels), Automatic Night Mode, Dual Alarm Clocks, Wall Mountable / Table Stand
Dimensions (Console)	Approx. 8.7" (22.0 cm) width, 8.0" (20.4 cm) height (based on image)

Image: The display console showing its approximate dimensions and illustrating the power options: continuous power via USB-C adapter and temporary power via AA batteries.

7. Warranty and Support

For warranty information and technical support, please refer to the official Raddy website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.
While this manual provides comprehensive guidance, specific issues may require direct assistance. Please consult the manufacturer's resources for the most up-to-date support information.

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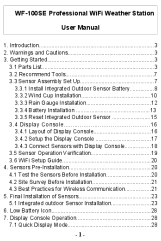
Related Documents - WF-120C

	[WF-120C Professional Weather Station Manual] This manual provides comprehensive instructions for setting up, operating, and maintaining the WF-120C Professional Weather Station. Learn about its features, sensor connections, weather forecasting capabilities, and more.
	[Raddy WF-100C Lite Professional Wi-Fi Weather Station User Manual] Comprehensive user manual for the Raddy WF-100C Lite Professional Wi-Fi Weather Station, covering installation, operation, features, and troubleshooting.
	[WF-120C Professional Weather Station Manual] Comprehensive user manual for the WF-120C Professional Weather Station, detailing features, setup, and connection to online weather services like Wunderground and Weathercloud.
	[Raddy VP7 Professional Weather Station User Manual: Setup, Features, and Operation] Comprehensive user manual for the Raddy VP7 Professional Weather Station. Learn about its features, setup, operation, specifications, and troubleshooting for accurate indoor and outdoor environmental monitoring.
	[WF-100SE Professional WiFi Weather Station User Manual - Raddy] Comprehensive user manual for the Raddy WF-100SE Professional WiFi Weather Station. Learn how to install, operate, calibrate, and troubleshoot your weather station for accurate home weather monitoring.
	[UV6 Professional Weather Station User Manual] Comprehensive user manual for the UV6 Professional Weather Station, detailing features, setup, operation, and maintenance. Learn about temperature, humidity, wind speed, rainfall, UV index, and weather forecasting.

WF-120C Professional Weather Station Manual

This manual provides comprehensive instructions for setting up, operating, and maintaining the WF-120C Professional Weather Station. Learn about its features, sensor connections, weather forecasting capabilities, and more.

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WF-120C Professional Weather Station Manual

Comprehensive user manual for the WF-120C Professional Weather Station, detailing features, setup, and connection to online weather services like Wunderground and Weathercloud.

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