

Raddy WF-120P

Raddy WF-120P Wi-Fi Weather Station User Manual

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Raddy WF-120P Wi-Fi Weather Station. This device is designed to provide comprehensive real-time weather data and forecasts, enhancing your ability to monitor local environmental conditions. Please read this manual thoroughly before using the product to ensure proper function and longevity.



Image 1.1: The Raddy WF-120P Weather Station, showing the main display unit and the integrated 7-in-1 outdoor sensor.

2. SAFETY INFORMATION

- Do not expose the display unit to extreme temperatures, direct sunlight, or moisture.
- Ensure the outdoor sensor is mounted securely to prevent damage from wind or falling.
- Use only the specified power adapter for the display unit.
- Keep the device out of reach of children.
- Do not attempt to disassemble or repair the unit yourself. Contact customer support for assistance.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Raddy WF-120P Display Unit (10-inch HTN Color Screen)
- 7-in-1 Outdoor Sensor

- Power Adapter for Display Unit
- Mounting Kit for Outdoor Sensor (pole, bracket, screws)
- User Manual (this document)



Image 3.1: Contents of the Raddy WF-120P package, including the display, sensor, power adapter, and mounting hardware.

4. PRODUCT OVERVIEW

4.1 Display Unit

The 10-inch HTN color display unit provides a clear overview of all collected weather data. It features touch buttons for backlight control and physical buttons on the rear for settings adjustments.

4.2 7-in-1 Outdoor Sensor

The integrated outdoor sensor measures temperature, humidity, wind speed, wind direction, rainfall, UV index, and light intensity. It is powered by a solar panel with battery backup for continuous operation.

5. SETUP

5.1 Powering the Display Unit

1. Connect the provided power adapter to the display unit and plug it into a wall outlet. The backlight will remain on continuously.
2. Alternatively, insert 3 AA batteries (not included) into the battery compartment. The backlight will turn off after 15 seconds to conserve power.



Image 5.1: The display unit can be powered via the included power adapter for continuous backlight or with AA batteries for portable use with timed backlight.

5.2 Outdoor Sensor Installation

1. Choose an open location for the outdoor sensor, free from obstructions that could affect wind, rain, or sunlight measurements.
2. Assemble the mounting pole and bracket using the provided screws.
3. Securely attach the 7-in-1 sensor to the mounting pole. Ensure the wind vane and anemometer can rotate freely.
4. Mount the assembled sensor in your chosen location, ensuring it is level for accurate rainfall measurement.

5.3 Wi-Fi Connection and App Setup

1. Download the **Tuya Smart** app from your smartphone's app store (iOS or Android).
2. Register or log in to your Tuya Smart account.
3. Follow the in-app instructions to add the Raddy WF-120P weather station. Ensure your phone is connected to a 2.4GHz Wi-Fi network during setup. The WF-120P does not support 5GHz networks.
4. Once connected, the display unit will synchronize time and receive 5-day forecast data.



Image 5.2: The Raddy WF-120P supports wireless app monitoring via the Tuya Smart application, providing real-time data and historical trends.

6. OPERATING THE WEATHER STATION

6.1 Display Overview

The 10-inch HTN color display presents various weather parameters clearly. Key information includes:

- Date & Time, Moon Phase
- Outdoor Temperature & Humidity

- Indoor Temperature & Humidity
- Wind Direction & Speed
- Rainfall
- Feels Like Temperature
- UV & Light Index
- Air Pressure
- PM2.5 / AQI (Air Quality Index)
- 5-Day Weather Forecast



Image 6.1: The multi-functional display clearly labels all monitored weather parameters for easy reading.

6.2 5-Day Weather Forecast

After successful Wi-Fi connection, the station automatically updates and displays a 5-day weather forecast, including daily high and low temperatures and weather conditions.

5-DAY WEATHER FORECAST

Auto Updated via Wi-Fi



Image 6.2: The display provides an auto-updated 5-day weather forecast via Wi-Fi, showing daily conditions and temperatures.

6.3 Adjusting Display Brightness and Night Mode

The display unit offers five levels of brightness. Use the touch buttons on the top of the unit to cycle through brightness settings. An automatic night mode can be configured to dim the display during specified hours.



Image 6.3: The display features 5-level backlight adjustment and a night mode for optimal visibility in various lighting conditions.

6.4 App Functions

The Tuya Smart app allows you to:

- View live weather readings from anywhere.
- Access historical weather data for up to one year.
- Set custom alerts for specific weather conditions.
- Manage multiple weather stations (if applicable).

6.5 Multi-Area Monitoring

The Raddy WF-120P system supports monitoring up to 5 areas. Additional indoor sensors (sold separately) can be paired with the main display unit to expand your monitoring capabilities.

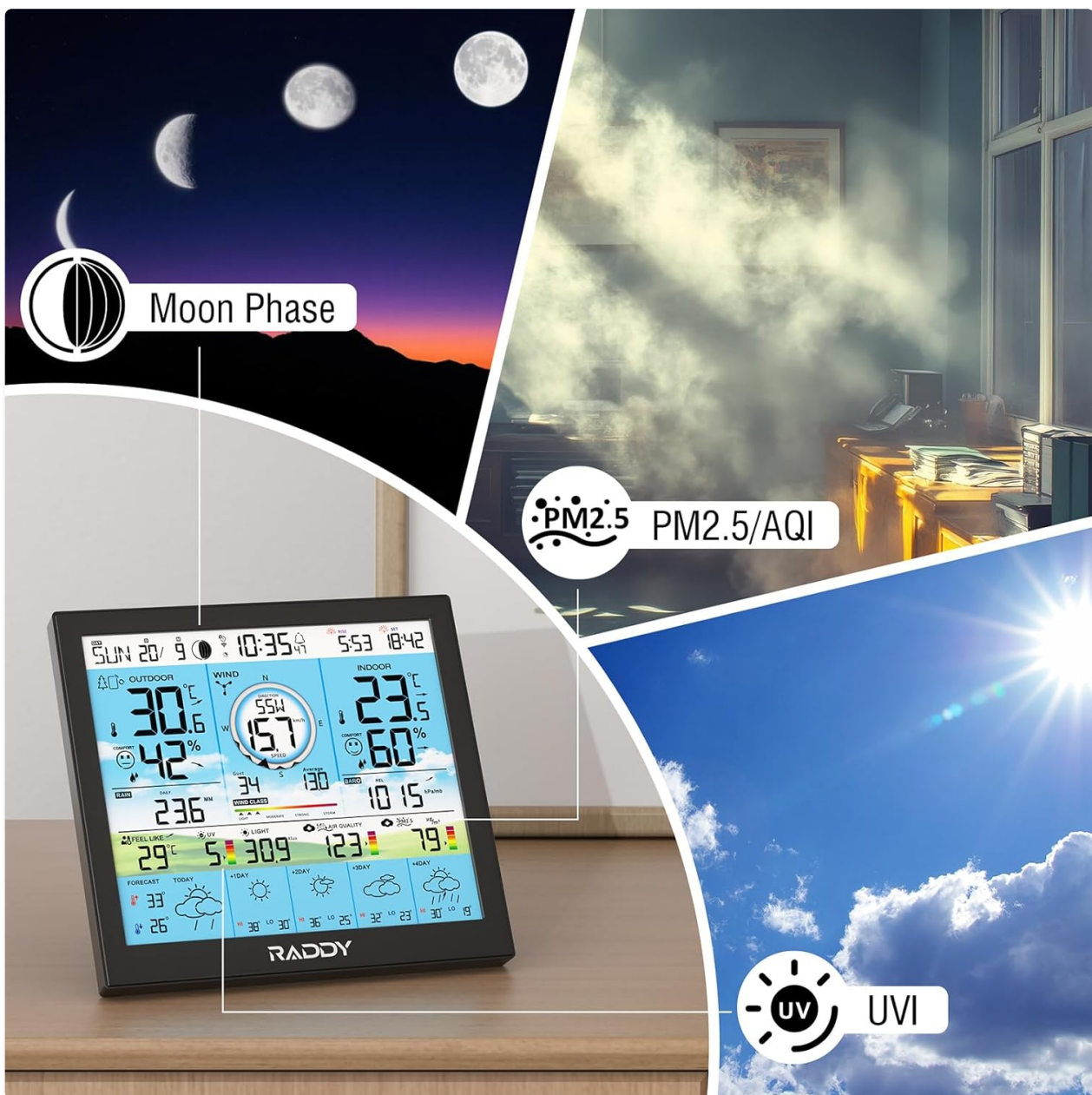


Image 6.4: The system supports up to 100m transmission and can monitor up to 5 areas with additional indoor sensors (sold separately).

7. MAINTENANCE

7.1 Cleaning the Display Unit

Wipe the display screen and casing with a soft, dry cloth. Avoid using abrasive cleaners or solvents.

7.2 Cleaning the Outdoor Sensor

Periodically check the outdoor sensor for debris (leaves, dirt) that may obstruct the rain collector, wind cups, or wind vane. Clean gently with a soft cloth and water if necessary. Ensure the solar panel is clean for optimal charging.

7.3 Battery Replacement

If using AA batteries for the display unit, replace them when the low battery indicator appears on the screen. The outdoor sensor uses a solar panel for power, but may have an internal backup battery that should not require user replacement under normal conditions.

8. TROUBLESHOOTING

- **No Outdoor Data:** Ensure the outdoor sensor is within range (up to 100m line of sight) and has sufficient power. Check for obstructions between the sensor and display unit.
- **Wi-Fi Connection Issues:** Verify your Wi-Fi network is 2.4GHz. Restart your router and the display unit. Ensure correct Wi-Fi password entry in the Tuya Smart app.
- **Inaccurate Readings:** Ensure the outdoor sensor is mounted in an open area, away from heat sources or reflective surfaces. Check if the rain collector is clear of debris.
- **Display Not Responding:** Disconnect the power adapter and remove batteries (if applicable), then reconnect to perform a soft reset.

9. SPECIFICATIONS

Feature	Specification
Model Number	WF-120P
Display Size	10-inch HTN Color Display
Connectivity	Wi-Fi (2.4GHz only)
Outdoor Sensor	7-in-1 (Temp, Humidity, Wind Speed/Direction, Rainfall, UV, Light)
Transmission Range	Up to 100 meters (330 feet) line of sight
Power Source (Display)	Power Adapter (included), 3x AA Batteries (not included)
Power Source (Outdoor Sensor)	Solar Panel with Battery Backup
Special Features	App Control (Tuya Smart), 5-Day Forecast, Alarm, Adjustable Backlight
Product Dimensions	37.79 x 29.1 x 17.3 cm (Package)
Weight	2.18 kilograms (Package)
Manufacturer	Raddy
Country of Origin	China

10. WARRANTY AND SUPPORT






10.1 Warranty Information

Warranty details for the Raddy WF-120P Weather Station are typically provided with your purchase documentation or can be found on the official Raddy website. Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact Raddy customer support through their official website or the contact information provided with your product packaging.

Related Documents - WF-120P

	<p>Raddy WF-55C Weather Station User Manual: Setup, Features, and Operation</p> <p>Comprehensive user manual for the Raddy WF-55C Weather Station. Provides detailed instructions on setup, features like temperature and humidity monitoring, weather forecasting, alarms, and troubleshooting tips.</p>
	<p>WF-120C Professional Weather Station Manual</p> <p>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.</p>
	<p>Raddy WF-100C Lite Professional Wi-Fi Weather Station User Manual</p> <p>Comprehensive user manual for the Raddy WF-100C Lite Professional Wi-Fi Weather Station, covering installation, operation, features, and troubleshooting.</p>
	<p>WF-120C Professional Weather Station Manual</p> <p>Comprehensive user manual for the WF-120C Professional Weather Station, detailing features, setup, and connection to online weather services like Wunderground and Weathercloud.</p>
	<p>Raddy WF-55C Weather Station User Manual</p> <p>User manual for the Raddy WF-55C Weather Station, providing detailed instructions on setup, features, operation, alerts, troubleshooting, and technical specifications for monitoring indoor and outdoor temperature, humidity, and weather forecasts.</p>

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Technical Data and Features

Model

WF-N90

WF-N90 is a high-precision weather station with the following features:

- High-precision sensors: The station is equipped with high-precision sensors for temperature, humidity, barometric pressure, wind speed, and wind direction.
- Large LCD display: The station features a large LCD display that shows real-time weather data and forecasts.
- Alarm function: The station has an alarm function that can be set to trigger an alarm when the weather conditions change.
- Data storage: The station can store up to 1000 days of weather data.
- Power supply: The station is powered by a rechargeable battery.

Technical Specifications

• Temperature: -30°C to 50°C (-22°F to 122°F)

• Humidity: 0% to 100%

• Barometric pressure: 950 hPa to 1060 hPa

• Wind speed: 0 to 20 m/s (0 to 45 mph)

• Wind direction: 0° to 360°

• Power supply: Rechargeable battery

• Dimensions: 120mm x 120mm x 120mm

• Weight: 150g

• Material: ABS plastic

• Color: White

• Warranty: 1 year

[WF-N90 Weather Station Manual: Features, Setup, and Operation](#)

Comprehensive user manual for the WF-N90 Weather Station, detailing its technical specifications, setup procedures, button operations, alarm settings, and network weather forecast features. Includes information on indoor/outdoor temperature, humidity, barometric pressure, wind speed, air quality, and more.