

Raddy WF-50V

Raddy WF-50V Indoor Outdoor Thermometer Hygrometer User Manual

Model: WF-50V | Brand: Raddy

1. INTRODUCTION

The Raddy WF-50V is a versatile indoor and outdoor thermometer and hygrometer designed to provide precise real-time environmental data. Featuring a clear 5-inch VA display, it offers instant data overview including indoor and outdoor temperature and humidity, pressure trends, time, weather forecast, and daily MAX/MIN records. Its stable wireless transmission ensures easy installation and reliable data transfer. The device supports flexible power options via USB-C or AAA batteries, with adjustable brightness levels for optimal viewing.

2. PACKAGE CONTENTS

- 1 x Raddy WF-50V Main Display Unit
- 1 x Wireless Remote Sensor
- 1 x USB-C Power Cable
- 1 x User Manual

3. PRODUCT OVERVIEW



Figure 3.1: The Raddy WF-50V main display unit (left) and its accompanying wireless remote sensor (right).



Figure 3.2: Detailed view of the WF-50V display, highlighting key information areas such as weather forecast, indoor/outdoor temperature and humidity, and current time.



Figure 3.3: Rear view of the main display unit, showing the control buttons (SET, MEM, +, -) and the USB-C power input.

24-HOUR MAX/MIN TEMPERATURE & HUMIDITY RECORDS

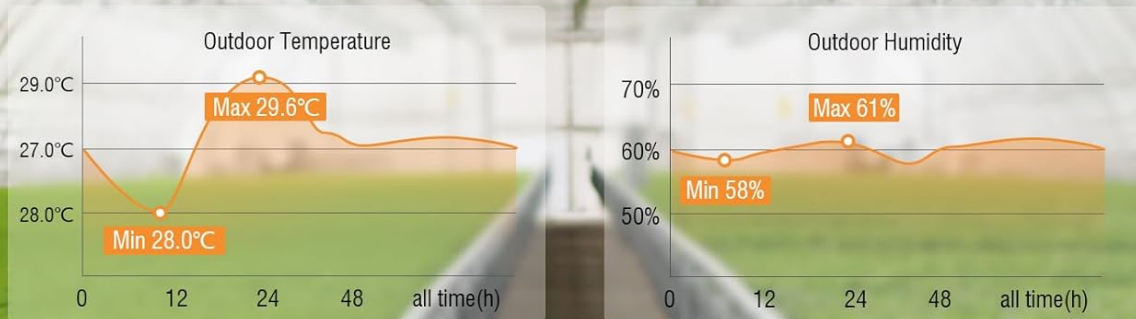


Figure 3.4: Physical dimensions of both the main display unit and the wireless remote sensor for placement planning.

4. SETUP

4.1 Battery Installation

The Raddy WF-50V main unit can be powered by USB-C or 2 x AAA batteries (not included). The remote sensor requires 2 x AAA batteries (not included).

- Main Display Unit:** Open the battery compartment on the back of the main unit. Insert 2 x AAA batteries, ensuring correct polarity (+/-). Close the compartment. For continuous backlight, connect the USB-C cable to a power adapter (not included).
- Wireless Remote Sensor:** Open the battery compartment on the back of the remote sensor. Insert 2 x AAA batteries, ensuring correct polarity (+/-). Close the compartment.



Figure 4.1: Illustration of the flexible power options for the main unit, including USB-C adapter and AAA battery power.

4.2 Sensor Pairing

The main unit and remote sensor should pair automatically upon battery installation. If pairing does not occur, follow these steps:

1. Ensure both the main unit and remote sensor have fresh batteries installed.
2. Place the main unit and sensor close to each other.
3. On the main unit, press and hold the 'MEM' button for 3 seconds to initiate a search for the remote sensor. The outdoor temperature and humidity display will flash.
4. On the remote sensor, press the 'TX' button (usually located inside the battery compartment or on the back) to send a signal.
5. Once connected, the outdoor readings will appear steadily on the main unit's display.

4.3 Placement

Proper placement is crucial for accurate readings and optimal wireless transmission.

- **Main Display Unit:** Place the main unit indoors, away from direct sunlight, heat sources, or vents that could affect indoor temperature readings. It can be placed on a tabletop or mounted on a wall.

- **Wireless Remote Sensor:** Place the remote sensor outdoors in a shaded, dry location, protected from direct rain and sunlight. Ensure it is within the 330-foot (100m) transmission range of the main unit. Avoid placing it near large metal objects or strong electromagnetic interference sources.



Figure 4.2: The Raddy WF-50V system demonstrating its 328ft (100m) wireless transmission range, allowing flexible placement of the remote sensor.

5. OPERATING INSTRUCTIONS

5.1 Display Overview

The 5-inch VA display provides a comprehensive overview of environmental data:

- **Weather Forecast:** Icons indicating predicted weather conditions (sunny, cloudy, rainy, etc.).
- **Outdoor Temperature & Humidity:** Current readings from the remote sensor.
- **Indoor Temperature & Humidity:** Current readings from the main unit's built-in sensors.
- **Time:** Current time in 12/24 hour format.

- **Pressure Trend:** An arrow indicating rising, falling, or stable barometric pressure.

5.2 Setting Time and Units

To adjust settings on the main unit:

1. **Enter Setting Mode:** Press and hold the 'SET' button for 3 seconds. The hour digit will flash.
2. **Adjust Values:** Use the '+' or '-' buttons to change the flashing value.
3. **Navigate Settings:** Press the 'SET' button repeatedly to cycle through settings: Hour → Minute → 12/24 Hour Format → Temperature Unit (°C/°F).
4. **Save Settings:** After adjusting all desired settings, press the 'SET' button one last time to exit setting mode, or wait 15 seconds for it to automatically exit.

5.3 Weather Forecast

The built-in pressure sensor predicts 12-24 hour weather trends. The display will show one of the following icons:

- Sunny
- Slightly Cloudy
- Cloudy
- Rainy
- Heavy Rain
- Snowy

3 ADJUSTABLE BACKLIGHT



Figure 5.1: The different weather icons displayed by the WF-50V to indicate future weather conditions.

5.4 MAX/MIN Records

The unit automatically tracks and stores the maximum and minimum temperature and humidity readings from the past 24 hours.

- **View MAX Records:** Press the 'MEM' button once to display the maximum recorded indoor and outdoor temperature and humidity.
- **View MIN Records:** Press the 'MEM' button again to display the minimum recorded indoor and outdoor temperature and humidity.
- **Clear Records:** Press and hold the 'MEM' button for 3 seconds while viewing MAX or MIN records to clear them.

ENSURE COMFORTABLE CONDITIONS



Figure 5.2: The display showing the maximum and minimum temperature and humidity records over a 24-hour period.

5.5 Backlight Control

The main unit features three adjustable backlight levels when powered by batteries, and a continuous backlight when powered via USB-C.

- **Adjust Brightness:** Briefly press the light bulb icon button on the front of the unit to cycle through backlight levels (Off → Low → High).
- When powered by USB-C, the backlight remains continuously on.



Figure 5.3: Visual representation of the three adjustable backlight levels for the main display unit.

6. MAINTENANCE

- **Cleaning:** Wipe the display and unit surfaces with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries in both the main unit and remote sensor when the low battery indicator appears on the display. Ensure to use fresh AAA batteries.
- **Storage:** If storing the device for an extended period, remove all batteries to prevent leakage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No outdoor reading	Sensor not paired or out of range; low sensor battery.	Re-pair sensor (Section 4.2); move sensor closer to main unit; replace sensor batteries.

Problem	Possible Cause	Solution
Inaccurate readings	Unit/sensor exposed to direct sunlight, heat, or moisture.	Relocate unit/sensor to a shaded, protected area (Section 4.3).
Display is dim or off	Low main unit battery; USB-C cable disconnected.	Replace main unit batteries; ensure USB-C cable is securely connected.
Weather forecast inaccurate	Unit needs time to calibrate pressure changes.	Allow 24-48 hours for the unit to learn local atmospheric pressure patterns.

8. SPECIFICATIONS

- **Model:** WF-50V
- **Indoor Temperature Range:** +14.2°F to +122°F (-9.9°C to 50°C)
- **Outdoor Temperature Range:** -40°F to +158°F (-40°C to 70°C)
- **Humidity Range:** 20% to 95% RH
- **Temperature Accuracy:** ±1°C
- **Wireless Transmission Range:** 330 feet (100 meters) in open air
- **Power Source (Main Unit):** USB-C (DC 5V) or 2 x AAA batteries
- **Power Source (Remote Sensor):** 2 x AAA batteries
- **Display Type:** 5.0" VA LCD
- **Product Dimensions (Main Unit):** 3.5 x 1.5 x 5.0 inches (approx. 8.9 x 3.9 x 12.7 cm)
- **Product Dimensions (Remote Sensor):** 1.5 x 0.9 x 3.7 inches (approx. 3.9 x 2.3 x 9.3 cm)
- **Special Feature:** Alarm, Weather Forecast, MAX/MIN Records

9. WARRANTY AND SUPPORT

Raddy products are designed for reliability and performance. For warranty information, technical support, or customer service inquiries, please refer to the contact details provided on the Raddy official website or the product packaging. Please retain your purchase receipt as proof of purchase for any warranty claims.

You can visit the [Raddy Store on Amazon](#) for more information and product support.

Related Documents - WF-50V



Please read the instruction before using the product and save it for future reference.

Any questions, please feel free to contact support@xaddy.com or visit us on xaddy.com

Raddy WF-55C Weather Station User Manual

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.

Features:

- ▶ Time in optimal 12/24 hour format
- ▶ Indoor temperature detection range: -9.9°C ~ +50°C & +34.3°F ~ +122°F
- ▶ Outdoor temperature range: -40 °C to +70 °C (-40 °F to 158.0 °F)
- ▶ Indoor and outdoor humidity detection range: 20%-95%
- ▶ Temperature units: °C/°F
- ▶ Memory query for maximum and minimum temperature and humidity values
- ▶ Pressure change trend indication
- ▶ Weather forecast
- ▶ Power Supply

Partno: 3-x1801 AAA

Raddy WF-50 Weather Station User Manual: Features, Setup, and Operation

Comprehensive user manual for the Raddy WF-50 digital weather station. Covers features, initial setup, temperature/humidity monitoring, weather forecasting, and operational details.

- Time in optimal 12/24 hour format
- Indoor temperature detection range: -9.5°C ~ +50°C & +14.1°F ~ +122°F
- Outdoor temperature range: -40 °C to +70 °C (-40 °F to 158.0 °F)
- Indoor and outdoor humidity detection range: 20%~95%
- Temperature unit: °C/°F
- Memory query for maximum and minimum temperature and humidity values
- Pressure change trend indication
- Weather forecast
- Power Supply:
Battery: 2 x (R03) AAA

WF-50 User Manual: Features, Operation, and Specifications

Comprehensive user manual for the Raddy WF-50 weather station, detailing its features, setup, operation, and technical specifications for indoor and outdoor temperature, humidity, and weather forecasting.



Thank you for your purchase.
Please send this magazine with creditable and save it yourself before you.

[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.



Raddy WF-55C Weather Station User Manual: Setup, Features, and Operation

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.



[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.

WF-50 User Manuals

Features:

- ▶ Time in optional 12/24 hour format
- ▶ Indoor temperature detection range: -9.9°C ~ +50°C & +14.2°F ~ +122°F
- ▶ Outdoor temperature range: -40 °C to +70 °C (-40 °F to 158.0 °F)
- ▶ Indoor and outdoor humidity detection range: 20%~95%
- ▶ Temperature units: °C&°F
- ▶ Memory query for maximum and minimum temperature and humidity values
- ▶ Pressure change trend indication
- ▶ Weather forecast
- ▶ Power Supply:
Battery: 2 x LR03 AAA
DC: Type-C / 5V in

[WF-50 User Manual: Features, Operation, and Specifications](#)

Comprehensive user manual for the Raddy WF-50 weather station, detailing its features, setup, operation, and technical specifications for indoor and outdoor temperature, humidity, and weather forecasting.

lang: **score:27** filesize: 16.63 M page_count: 51 document date: 2025-03-31