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## Raddy WF-50T

# Raddy WF-50 Wireless Weather Station User Manual

Indoor Outdoor Thermometer Hygrometer with 5.0" Display

## PRODUCT OVERVIEW

The Raddy WF-50 is a wireless weather station designed to monitor indoor and outdoor temperature and humidity. It features a 5.0-inch LCD display that provides real-time environmental data, weather forecasts, and daily MAX/MIN records. The system includes a main display unit and a wireless remote sensor for outdoor measurements.



Figure 1: Raddy WF-50 Main Display Unit and Wireless Remote Sensor.

The main display unit (left) shows indoor temperature and humidity, current time, and weather forecast. The wireless remote sensor (right) transmits outdoor temperature and humidity data to the main unit.

## KEY FEATURES

- **High-Precision Monitoring:** Accurately measures indoor temperatures from +14.2°F to +122°F (-9.9°C to 50°C) and outdoor temperatures from -40°F to +158°F (-40°C to 70°C), with humidity levels ranging from 20% to 95%.
- **Instant Data Overview:** The 5-inch LCD screen presents essential information at a glance, including indoor and outdoor temperature (°C/°F), humidity, pressure trends, time, weather forecast, and daily MAX/MIN data.
- **Stable Wireless Transmission:** Utilizes advanced wireless technology to transmit outdoor data to the indoor display every 30 seconds, with a 330-foot (100 m) range.
- **Weather Forecasting:** Equipped with a built-in pressure sensor, it predicts 12-24 hour weather trends and tracks the max/min temperature and humidity from the past 24 hours.

- **Flexible Power Options:** Power the device via USB-C charging or 2 x AAA batteries. In battery mode, the screen offers three adjustable brightness levels. Batteries are recommended as a backup to prevent data loss during power outages.



Figure 2: Detailed view of the Raddy WF-50 display showing various data points.

## SETUP GUIDE

### 1. Unboxing and Components:

Carefully remove the main display unit and the wireless remote sensor from the packaging. Ensure all components are present.

### 2. Powering the Main Unit:

The main unit can be powered via USB-C or 2 x AAA batteries (not included). For continuous display illumination and data backup, it is recommended to use both power sources.

- **Battery Installation:** Open the battery compartment on the back of the main unit. Insert 2 x AAA

batteries, ensuring correct polarity (+/-).

- **USB-C Power:** Connect the provided USB-C cable to the main unit and a compatible USB power adapter (not included).



Figure 3: Battery installation in the main display unit.

### 3. Powering the Remote Sensor:

Open the battery compartment on the wireless remote sensor. Insert 2 x AAA batteries (not included), ensuring correct polarity (+/-).

### 4. Pairing the Units:

The main unit and remote sensor should automatically pair once both are powered on. Place them close to each other during initial setup. The outdoor temperature and humidity readings should appear on the main display within a few minutes.

### 5. Placement of the Remote Sensor:

For accurate outdoor readings, place the remote sensor in a shaded, dry location, protected from direct sunlight and precipitation. Ensure it is within the 330-foot (100 m) transmission range of the main unit.



# 328FT (100M) TRANSMISSION RANGE



Figure 4: Recommended placement and transmission range for the remote sensor.

## OPERATING INSTRUCTIONS

### Display Information

The 5.0-inch LCD display provides comprehensive information:

- **Indoor Temperature & Humidity:** Located on the lower left of the display.
- **Outdoor Temperature & Humidity:** Located on the upper right of the display.
- **Time:** Displayed prominently in the center.
- **Weather Forecast:** Icons representing Sunny, Slightly Cloudy, Cloudy, Rainy, Heavy Rainy, and Snowy conditions are shown at the top left.
- **Pressure Trends:** Indicated by an arrow next to the weather forecast.
- **MAX/MIN Records:** Daily maximum and minimum temperature and humidity values are tracked.

# WEATHER FORECAST



Sunny



Slightly Cloudy



Cloudy



Rainy



Heavy Rainy



Snowy



Figure 5: Weather forecast icons on the display.

## Setting Time and Units

Use the buttons on the back of the main unit to adjust settings:

- **SET Button:** Press to enter setting mode for time, date, and other parameters. Press repeatedly to cycle through settings.
- **+/- Buttons:** Use to adjust values up or down during setting mode.
- **MEM Button:** Press to view MAX/MIN temperature and humidity records.
- **Temperature Unit:** The display supports both Celsius (°C) and Fahrenheit (°F). Refer to the detailed user manual for specific instructions on switching units.

# 24-HOUR MAX/MIN TEMPERATURE & HUMIDITY RECORDS

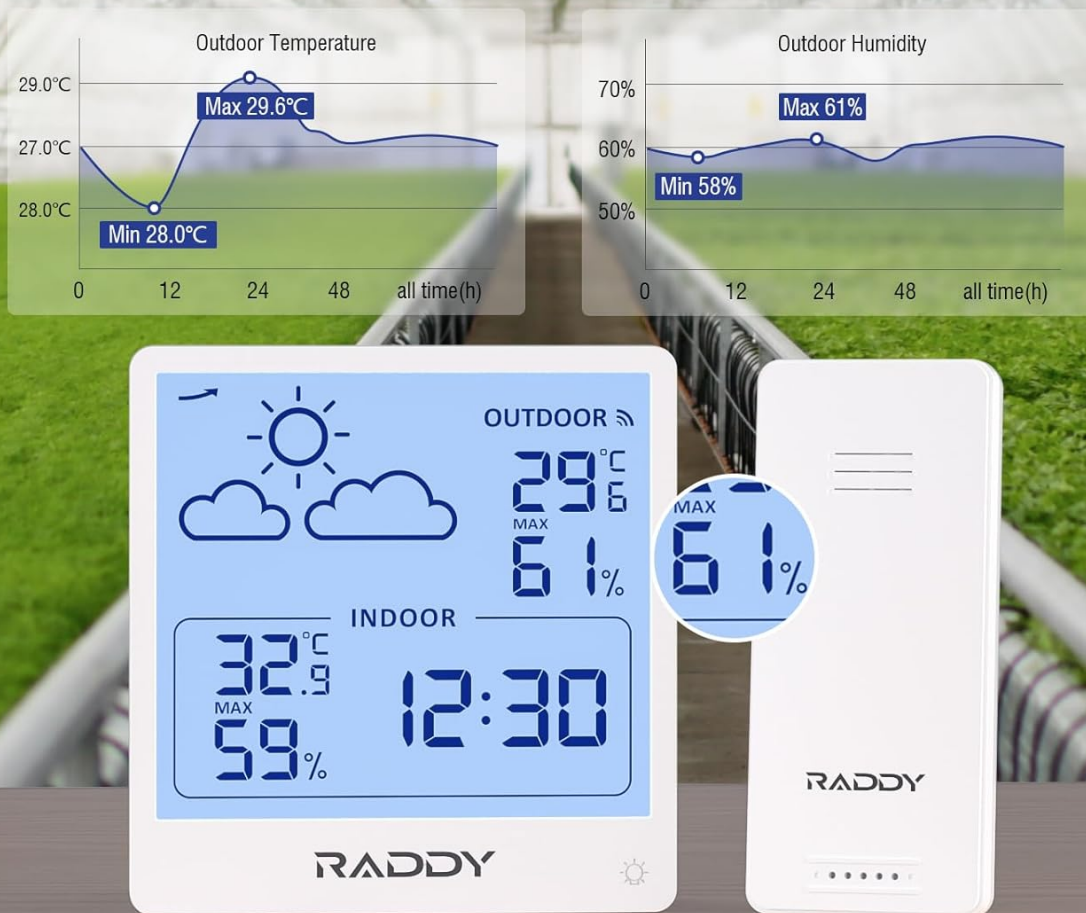


Figure 6: Example of 24-hour MAX/MIN temperature and humidity records.

## MAINTENANCE

- **Cleaning:** Wipe the display unit and remote sensor with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries in both units when the low power alert appears on the display. Ensure to use fresh AAA batteries.
- **Sensor Placement:** Periodically check the outdoor sensor's placement to ensure it remains protected from extreme weather conditions and direct sunlight for accurate readings.

## TROUBLESHOOTING



Problem	Possible Cause	Solution
No outdoor reading on display.	Sensor out of range or batteries low/dead.	Move sensor closer to the main unit. Replace batteries in the sensor.
Inaccurate readings.	Sensor exposed to direct sunlight or moisture.	Relocate the sensor to a shaded, protected area.
Display is dim or blank.	Low batteries or no USB-C power.	Replace batteries or connect USB-C power. Adjust brightness settings if in battery mode.
Time/Date incorrect.	Not set or power interruption.	Manually set the time and date using the SET buttons. Ensure backup batteries are installed.

## SPECIFICATIONS

- **Model Number:** WF-50T
- **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%
- **Temperature Accuracy:** ±1°C
- **Wireless Transmission Range:** 330 feet (100 meters)
- **Power Source (Main Unit):** USB-C (DC 5V) or 2 x AAA batteries (not included)
- **Power Source (Remote Sensor):** 2 x AAA batteries (not included)
- **Display Size:** 5.0 inches LCD
- **Product Dimensions:** 0.8 x 3.5 x 5 inches (Main Unit)
- **Manufacturer:** Raddy
- **Country of Origin:** China





Figure 7: Dimensions of the Raddy WF-50 main unit and remote sensor.

## 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 for warranty claims.

**Manufacturer:** Raddy

**Brand Store:** [Visit the Raddy Store on Amazon](#)

