Raddy WF-55C Pro

Raddy WF-55C PRO Wireless Weather Station User Manual

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Raddy WF-55C PRO Wireless Weather Station. The WF-55C PRO is an advanced weather station designed for both indoor and outdoor use, featuring a color display, thermometer, hygrometer, and barometer. Please read this manual thoroughly before using the device to ensure proper functionality and longevity.

2. KEY UPGRADES OF WF-55C PRO

Building upon the WF-55C model, the WF-55C PRO introduces several enhancements:

- **Air Pressure Monitoring:** Integrated barometric pressure readings for improved weather forecasting.
- **Daily Display:** Enhanced daily information display.
- **Dual Alarm:** Two independent alarms for flexible scheduling.
- **Mold and Frost Alert:** Specific alerts to warn against mold risk and frost conditions.
- **Updated Remote Sensor:** The remote sensor now includes its own screen for real-time data viewing.

Figure 2.1: Raddy WF-55C PRO highlighting new features and updated remote sensor.

3. Package Contents

Ensure all items are present in the package:

- 1 x Raddy WF-55C PRO Main Unit
- 1 x Wireless Remote Sensor (Model R3)
- 1 x DC Adapter with USB Type-C Cable
- 1 x User Manual

Figure 3.1: Included components in the Raddy WF-55C PRO package.

4. Product Overview & Features

4.1. Main Unit Display

The Raddy WF-55C PRO features a vibrant color display that provides instant access to crucial weather and time information:

- **Indoor/Outdoor Temperature & Humidity:** Displays current readings in °C/°F.
- **Air Pressure:** Barometric pressure readings.
- **Weather Forecast:** 12-hour weather predictions with intuitive icons.
- **Time & Date:** Current time, calendar, and weekday display in 15 languages.
- **MAX/MIN Data:** Daily maximum and minimum records for temperature and humidity.
- **Comfort Level Indicator:** Five levels indicating indoor comfort based on humidity.
- **Mold Risk Indicator:** Alerts for potential mold growth conditions.
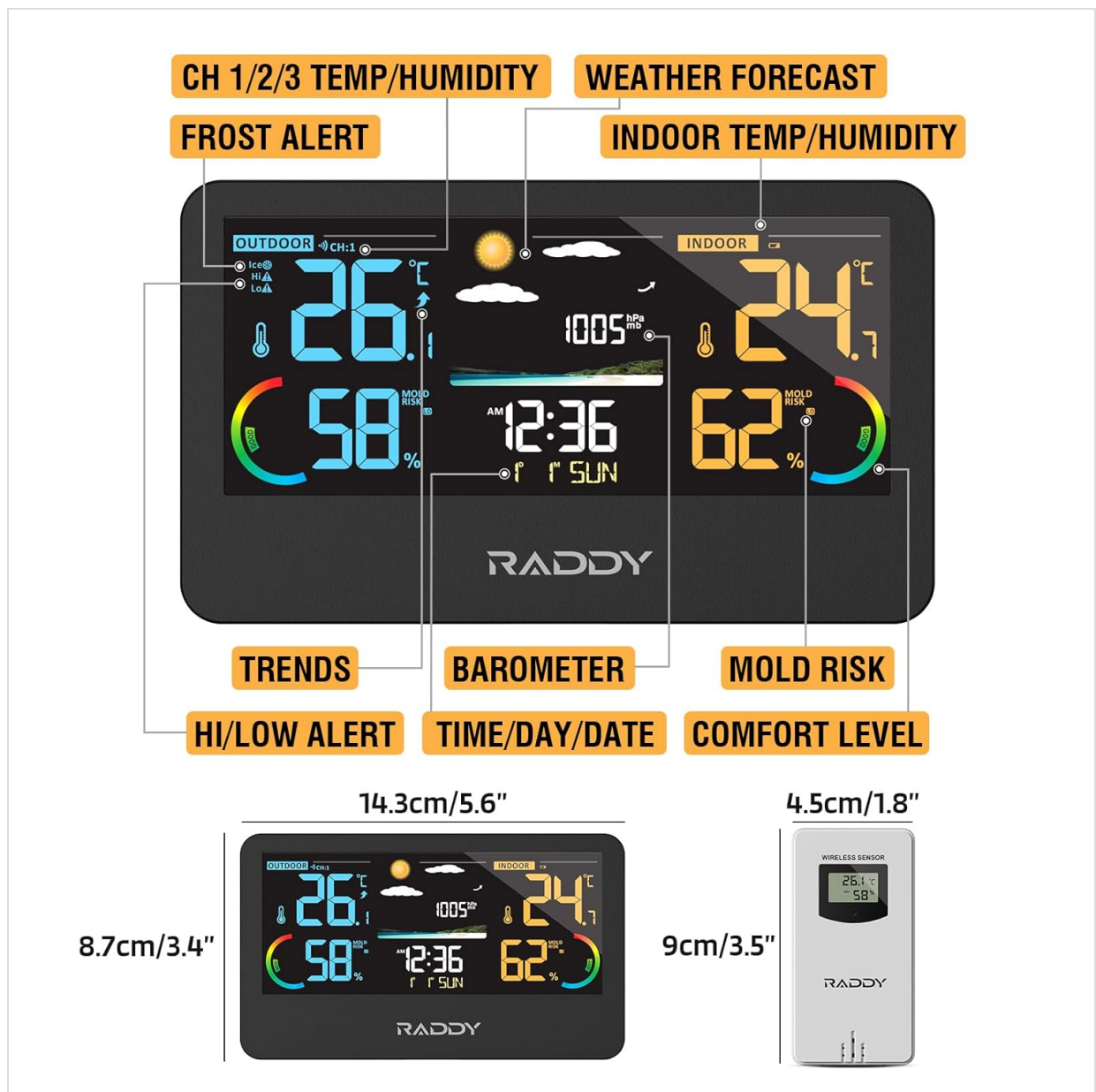- **Frost Alert:** Warning for freezing temperatures.

Figure 4.1: Detailed view of the Raddy WF-55C PRO display.

4.2. Expandable Monitoring

The system supports connection with up to three remote sensors (Model R3), allowing comprehensive monitoring across multiple locations. The transmission distance is up to 330 feet (100 meters) in open air.

Figure 4.2: Multiple remote sensors for expanded monitoring.

4.3. Customization & Ease of Use

- **Dual Alarms:** Set separate alarms for weekdays and weekends.
- **Adjustable Backlight:** Five levels of adjustable brightness for optimal viewing.
- **Mounting Options:** Can be wall-mounted or placed on a table using the integrated stand.

5 LEVELS ADJUSTABLE BACKLIGHT

Figure 4.3: Adjustable backlight levels.

Figure 4.4: Wall-mounted and table stand options.

4.4. Power Options

The main unit can be powered by a DC adapter (included) or 2 AAA batteries (not included). In battery mode, the screen activates by touch and automatically turns off after 15 seconds to conserve energy.

5. SETUP GUIDE

5.1. Initial Power-Up

1. Remove the protective film from the main unit's display.
2. Plug the DC adapter into the main unit and a powered outlet. The display will light up.
3. Open the battery compartment of the wireless remote sensor. Insert 2 AAA batteries (ensure correct polarity).
4. Set the channel switch (1, 2, or 3) inside the sensor's battery compartment to your desired channel.
5. On the main unit, press the "▲/CH" button to select the same channel as your remote sensor.
6. The main unit will automatically search for the sensor signal. This may take a few minutes. Once connected, outdoor temperature and humidity will appear on the display.

Figure 5.1: Raddy WF-55C PRO Main Unit and Wireless Sensor.

5.2. Placement Guidelines

- **Main Unit:** Place the main unit indoors, away from direct sunlight and heat sources. Ensure it is at least 0.9 meters (3 feet) away from electronic devices that may interfere with wireless communication (e.g., TVs, computers, microwaves).

- **Remote Sensor:** Place the remote sensor outdoors in a shaded, well-ventilated area, protected from direct sunlight and precipitation. Avoid placing it near large metal objects or other electronic devices. The optimal height is typically 1.2-2.4 meters (4-8 feet) above the ground.

6. OPERATING INSTRUCTIONS

6.1. Time and Date Settings

1. Press and hold the "SET/MEM" button to enter time setting mode.
2. Use the "▲/CH" or "▼/AUTO DIM" buttons to adjust the value.
3. Press "SET/MEM" to confirm and move to the next setting (12/24-hour format, hour, minute, year, month, date, weekday language, temperature unit °C/°F, beep ON/OFF).
4. Press "SET/MEM" again to exit the settings.

6.2. Alarm Settings

1. Press and hold the "ALARM" button to enter alarm time setting mode.
2. Use the "▲/CH" or "▼/AUTO DIM" buttons to adjust the hour and minute for Alarm 1.
3. Press "ALARM" to confirm and set Alarm 2.
4. In time display mode, press the "ALARM" button to toggle alarms ON/OFF.

6.3. Max/Min Records

Press the "SET/MEM" button repeatedly to view the maximum and minimum temperature and humidity records for both indoor and outdoor sensors. To clear the records, press and hold "SET/MEM" while in max or min record display mode.

6.4. Temperature Alerts

The WF-55C PRO allows you to set high and low temperature alerts for the outdoor sensor.

1. Press the "ALERTS" button to check the current high/low outdoor temperature alert settings.
2. In alert checking mode, press "▲/CH" or "▼/AUTO DIM" to turn the alert ON/OFF.
3. To set alert values, press and hold the "ALERTS" button. Use "▲/CH" or "▼/AUTO DIM" to adjust the high/low temperature thresholds.

6.5. Backlight Adjustment

When powered by the DC adapter, the backlight is continuously on. Press the "▼/AUTO DIM" button to cycle through five brightness levels. In battery mode, the backlight activates by touch and turns off after 15 seconds.

7. MAINTENANCE

7.1. Battery Replacement

- **Main Unit:** If using batteries, replace them when the low battery indicator appears on the display.
- **Remote Sensor:** Replace batteries when the low battery indicator for the outdoor sensor appears on the main unit's display or the sensor's own screen.

7.2. Cleaning

Wipe the main unit and sensor with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these may damage the display or casing.

8. TROUBLESHOOTING

- **No Outdoor Temperature/Humidity Reading:**

  - Ensure the remote sensor batteries are correctly installed and not depleted.
  - Verify that the main unit and sensor are set to the same channel.
  - Check the distance between the main unit and sensor; reduce obstacles if possible.
  - Relocate the sensor or main unit to avoid interference from other electronic devices.

- **Inaccurate Readings:**

  - Allow both units to stabilize for at least one hour after initial setup.
  - Ensure the remote sensor is not in direct sunlight or exposed to extreme weather elements.

- Compare readings with a known accurate thermometer/hygrometer.

- **Display Not Working:**

    - Check power connection (DC adapter) or replace batteries.
    - Ensure the protective film has been removed from the display.

9. SPECIFICATIONS

Feature	Value
Brand	Raddy
Model Number	WF-55C Pro
Power Source	DC Adapter or 2 AAA Batteries
Indoor Temperature Range	-10°C to 50°C (14°F to 122°F)
Outdoor Temperature Range	-20°C to 65°C (-4°F to 149°F)
Humidity Range	1% to 99% RH
Wireless Transmission Distance	Up to 330 feet (100 meters) in open air
Dimensions (Main Unit)	15.5 x 9.7 x 6.1 cm
Weight	340 grams

10. WARRANTY AND SUPPORT

Your Raddy WF-55C PRO Weather Station comes with a standard manufacturer's warranty. For specific warranty details, please refer to the documentation included with your purchase or contact Raddy customer support. If you encounter any issues or have questions not covered in this manual, please reach out to our support team for assistance.