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› DreamSky Weather Station Indoor Outdoor Thermometer Wireless with Digital Atomic Clock User Manual

DreamSky 24BW02

DreamSky Weather Station User Manual

Model: 24BW02

Brand: DreamSky

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your DreamSky Weather Station. Please read this manual thoroughly before use to ensure proper functionality and to maximize your product experience.

WHAT'S IN THE BOX

- DreamSky Weather Station Main Unit
- Wireless Outdoor Sensor (1 unit)
- Power Adapter
- User Manual
- Mounting Hardware (Ruler, Nails)

SETUP

1. Initial Power-up and Battery Installation

The weather station can be powered by the included AC adapter for continuous display brightness or by batteries for backup power. The outdoor sensor requires batteries.

Adapter powered



Battery backup (the screen will dim itself to save power)



Image: Rear view of the DreamSky Weather Station showing the power adapter connected and the battery compartment open, revealing three AA batteries. This unit can be powered by an adapter or by batteries for backup.

1. **Main Unit:** Insert 3 AA batteries (not included) into the battery compartment on the back of the main unit. For continuous display, connect the provided power adapter to the DC IN 5V port and plug it into a wall outlet.
2. **Outdoor Sensor:** Open the battery compartment on the back of the wireless outdoor sensor. Insert 2 AA batteries (not included), ensuring correct polarity. Close the compartment securely.

2. Sensor Placement

Place the outdoor sensor in a shaded, dry location away from direct sunlight and precipitation to ensure accurate temperature and humidity readings. The sensor has a signal range of up to 330ft (100m) in open air.

The weather station makes it easy for you to monitor the weather situation of you location.



Signal Range: 330ft (100m)



Outdoor Sensor Included

Image: The DreamSky Weather Station displayed indoors on a table, with an inset showing the wireless outdoor sensor hanging from a tree branch, illustrating its placement.

- **Mounting:** The main unit can be placed on a tabletop using its foldout stand or mounted on a wall using the two hanging holes. A mounting holes measure is included for easy installation.
- **Outdoor Sensor:** The outdoor sensor can be hung using its integrated hanging hole.



Image: Two illustrations showing placement options for the weather station: mounted on a wall using hanging holes and placed on a tabletop with its foldout stand.

3. WWVB Signal Acquisition

Upon initial power-up or after battery installation, the weather station will automatically begin searching for the WWVB atomic signal to synchronize time and date. During this search, the screen may dim to improve reception. The screen will light up automatically once the signal is acquired.



Atomic Clock and AUTO DST
provide you with an accurate time



Image: The DreamSky Weather Station displaying the atomic clock feature with auto DST, showing how time adjusts automatically for daylight saving time.

To manually quit the WWVB search, press and hold the "WWVB Memory" button on the back of the unit.

OPERATING INSTRUCTIONS

1. Display Overview

The large, colorful display provides clear readings for outdoor temperature and humidity, indoor temperature and humidity, weather forecast, atomic time, date, and moon phase.



Image: Front view of the DreamSky Weather Station displaying outdoor temperature and humidity, indoor temperature and humidity, weather forecast, current time, date, and moon phase.

2. Setting Time and Date

To manually set the time and date, follow these steps:

1. Hold the "SET" button for 2 seconds to enter setting mode.
2. Use the "+/-" buttons to adjust the value, and press "SET" to confirm and move to the next setting.
3. Settings sequence: 12/24 Hour Format → Hour → Minute → Year → Month → Day.
4. Press "SET" again to exit setting mode.

Your browser does not support the video tag.

Video: Official DreamSky tutorial on how to set up the weather station, including time, date, and other settings.

3. Adjusting Units and Forecast

While in setting mode (after holding "SET" for 2 seconds), you can also adjust the following:

- **Temperature Unit:** Toggle between Fahrenheit (°F) and Celsius (°C) using the "+/-" buttons.
- **Pressure Unit:** Change the pressure unit (e.g., inHg, hPa) using the "+/-" buttons.
- **Pressure Value:** Manually adjust the pressure value for calibration. The station needs 7-10 days to calibrate automatically, but manual adjustment can speed up the process.
- **Weather Forecast Icon:** Adjust the weather forecast icon using the "+/-" buttons. The station predicts weather conditions for the next 12-24 hours based on atmospheric pressure changes.

4. Backlight Adjustment

The display features 5 levels of adjustable backlight brightness. Press the "DIMMER" button to cycle through the brightness levels (L05 to L01, where L05 is brightest and L01 is dimmest). This function is active when the unit is powered by the adapter.



Image: The DreamSky Weather Station demonstrating its 5-level adjustable backlight brightness, from L05 (brightest) to L01 (dimmest).

5. Temperature Alerts

The weather station supports high/low temperature alerts for both indoor and outdoor readings. Refer to the detailed user manual for specific instructions on setting and managing these alerts.

6. Max/Min Temperature and Humidity Records

The unit automatically records the maximum and minimum temperature and humidity values. Press the "WWVB Memory" button to check these records.

MAINTENANCE

- **Battery Replacement:** Replace batteries in both the main unit and outdoor sensor when the low battery indicator appears on the display.
- **Cleaning:** Wipe the display and unit with a soft, dry cloth. Avoid using abrasive cleaners or chemicals that may damage the surface.
- **Storage:** If storing the unit for an extended period, remove all batteries to prevent leakage.

TROUBLESHOOTING

1. Screen is Dim or Not Lit

If your station's screen is dim or not lit, consider the following:

- **Battery Powered Alone:** The screen will dim when powered by batteries only to save power.
Solution: Connect the station with the adapter. If already connected, try plugging into another outlet.
- **Searching for WWVB Signal:** The screen will dim when searching for the WWVB signal for better reception.
Solution: The station will stay lit after receiving the atomic signal. You can also press and hold the "WWVB Memory" button to quit the searching process.
- **Low Dimmer Level:** The dimmer setting might be too low.
Solution: Adjust the dimmer to a higher level using the "DIMMER" button.

Your browser does not support the video tag.

Video: DreamSky Direct explains common reasons why the weather station screen might not stay lit and provides solutions.

2. Sensor Connectivity Issues

If the outdoor temperature/humidity is not displaying or is inaccurate:

- **Check Batteries:** Ensure the outdoor sensor has fresh batteries and they are installed correctly.
- **Relocate Sensor:** Move the outdoor sensor closer to the main unit or to a location with fewer obstructions (e.g., thick walls, large metal objects).
- **Resync:** Remove batteries from both the main unit and the sensor, wait a few minutes, then reinsert batteries into the sensor first, followed by the main unit. This will force a resynchronization.

3. Time Synchronization Issues

If the atomic clock is not synchronizing:

- **Optimal Placement:** Place the main unit near a window, away from electronic devices that might cause interference.
- **Manual Search:** Initiate a manual WWVB search by holding the "WWVB Memory" button.
- **Time Zone:** Ensure the correct time zone is selected on the unit.

SPECIFICATIONS

Model Number	24BW02
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Product Dimensions	3.94 x 3.94 x 3.94 inches; 10 ounces
Power Source	Corded Electric (Adapter included)
Battery Backup (Main Unit)	3 x AA batteries (not included)
Outdoor Sensor Batteries	2 x AA batteries (not included)
Connectivity Technology	WWVB (Atomic Clock Signal)
Special Features	Indoor/Outdoor Thermometer, Wireless Sensor, Large Colorful Display, Adjustable Backlight (5 levels), WWVB Digital Atomic Clock with Auto DST, Customizable Temperature Alerts, Max/Min Temp/Humidity Records, USB Charging Port



Weather



Barometer



Temperature



Humidity



WWVB



Auto DST



Calendar



Alarm



Moon Phase



Dimmer

Image: Diagram illustrating the dimensions of the weather station and icons representing its key features like weather forecast, barometer, temperature, humidity, WWVB, Auto DST, calendar, alarm, moon phase, and dimmer.

WARRANTY AND SUPPORT

For any questions or support regarding your DreamSky Weather Station, please contact DreamSky customer service at info@dreamsky4u.com. Please retain this user manual for future reference.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

How do I turn off the alarm on the DreamSky 24BW02 Weather Station?

Based on the available documentation for the DreamSky 24BW02 Weather Station, the specific button sequence to deactivate a daily alarm is not explicitly detailed in the summary text. However, most DreamSky weather stations and...

[Read full answer](#)