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> VEVOR 7-in-1 Wi-Fi Solar Self-Charging Weather Station User Manual

VEVOR YT60233

VEVOR 7-in-1 Wi-Fi Solar Self-Charging Weather Station User Manual

Model: YT60233 | Brand: VEVOR

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, and maintenance of your VEVOR 7-in-1 Wi-Fi Solar Self-Charging Weather Station. This advanced weather station offers precise monitoring of various environmental parameters, including wind speed, wind direction, temperature, humidity, rainfall, and light intensity, with real-time data accessible via Wi-Fi.

2. KEY FEATURES

- **7-in-1 Sensor:** Monitors wind speed, wind direction, temperature, humidity, rainfall, light, and UV index. Displays wind chill, dew point, pressure, calendar, and moon phase. Features IPX6 waterproof rating and alarm function for high/low values.
- **Wi-Fi Remote Control:** Enables real-time data transfer via Wi-Fi, supporting Weather Underground & WeatherCloud connections for viewing, saving, analyzing, sharing, and comparing data on smartphones.
- **100 M Transmission Distance:** Allows flexible sensor placement up to 328 ft/100 m from the display unit, suitable for various outdoor environments.
- **7-Inch TFT Large Display:** High-definition color screen with 10-level adjustable brightness, automatic internet time synchronization, and snooze alarm.
- **Solar Self-Charging:** Equipped with a 4 x 3 inch solar panel for extended battery life and rechargeable Ni-MH batteries, reducing the need for frequent replacements.

3. PACKAGE CONTENTS

Upon unpacking, please verify that all components listed below are present and in good condition:

- 1 x Weather Station (Main Display Unit)
- 1 x Wireless 7-in-1 Outdoor Sensor
- 1 x Wind Direction Vane with 1 Screw

- 1 x Wind Speed Cups with 1 Screw
- 1 x Mounting Pole with 4 Screws
- 1 x Mounting Brackets with 2 Screws & 2 Nuts
- 1 x Screwdriver I
- 1 x Screwdriver II
- 4 x Mounting Screws
- 4 x Plastic Expansion Plugs
- 1 x Funnel
- 4 x Nuts
- 4 x Fixing Screws
- 2 x Rubber Pads
- 1 x User Manual (this document)
- 1 x Adapter

100M Longer Transmission Distance

More flexible outdoor installation



Figure 3.1: Overview of included components.

4. SETUP GUIDE

4.1. Outdoor Sensor Assembly

1. **Attach Wind Speed Cups:** Securely fasten the wind speed cups to the designated shaft on the outdoor sensor using the provided screw.
2. **Attach Wind Direction Vane:** Mount the wind direction vane to its shaft, ensuring it can rotate freely.
3. **Install Batteries:** Insert the rechargeable Ni-MH batteries into the outdoor sensor's battery compartment. Ensure correct polarity.
4. **Mounting:** Choose an open area for the outdoor sensor, free from obstructions that could interfere with wind, rain, or sunlight. Use the mounting pole and brackets to secure the sensor. It can be mounted on a chimney, rooftop, or a sturdy pole in a garden. Avoid areas near TV sets, signal towers, or high-voltage lines.



Figure 4.1: Outdoor Sensor Components.

4X3 IN Solar Panel

Long Life Span, No Data Lose



Figure 4.2: Solar Panel for Self-Charging.

4.2. Indoor Display Unit Setup

1. **Power On:** Connect the adapter to the indoor display unit and plug it into a power outlet.
2. **Initial Pairing:** The indoor unit will automatically attempt to pair with the outdoor sensor. Ensure both units are within range (up to 100m/328ft).
3. **Wi-Fi Connection:** Follow the on-screen prompts to connect the display unit to your 2.4GHz Wi-Fi network. This enables real-time data upload to Weather Underground and WeatherCloud.
4. **Time Synchronization:** After successful Wi-Fi connection, the display unit will automatically synchronize with internet time within approximately 2 minutes. Manual time setting is not required.

7" TFT Display

10-Level Brightness Control

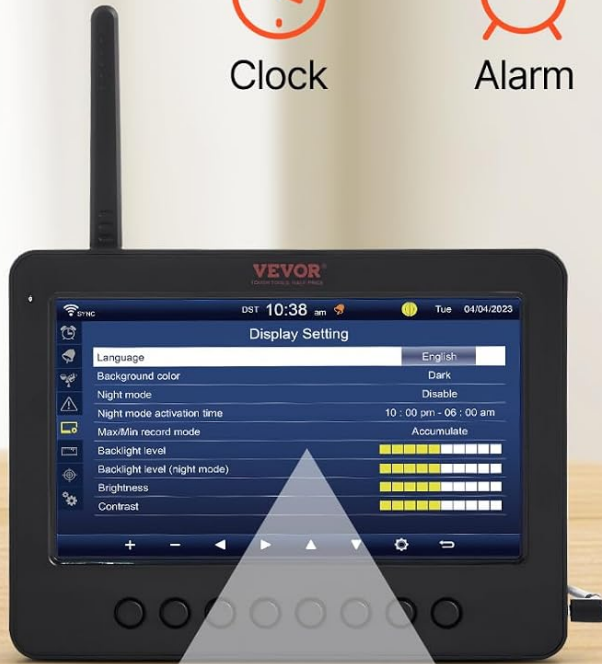
Clear for day and night viewing



Clock



Alarm



Backlight level

10-Level Adjustable Brightness



Check Weather Records



Check Climate Trends

Figure 4.3: 7-Inch TFT Display Unit.



Figure 4.4: Wi-Fi Connectivity Overview.

5. OPERATING INSTRUCTIONS

5.1. Display Navigation

The 7-inch TFT display provides a clear overview of current weather conditions. Use the buttons below the screen to navigate through different views and settings. The display shows:

- Outdoor and Indoor Temperature & Humidity
- Wind Direction & Speed
- Barometric Pressure
- Daily Rainfall
- Light Intensity & UV Index
- Weather Forecast Icons

- Feels Like Temperature, Heat Index, Dew Point
- Time, Date, and Moon Phase



Figure 5.1: Main Display Interface.

5.2. Alarm Functions

The weather station features customizable high and low alarms for various parameters. Refer to the display settings menu to set your desired alarm thresholds. An audible alarm will sound when a threshold is met.

5.3. Data Logging and Sharing

Through the Wi-Fi connection, your weather data is automatically uploaded to Weather Underground and WeatherCloud. You can access historical data, generate reports, and share your station's information with others via their respective platforms. Visit their websites for detailed instructions on setting up your station profile.

6. MAINTENANCE

- **Outdoor Sensor Cleaning:** Periodically clean the outdoor sensor, especially the rain collector and wind cups, to ensure accurate readings. Remove any debris, leaves, or insects.
- **Solar Panel:** Keep the solar panel clean and free from dust or obstructions to ensure optimal charging of the internal batteries.
- **Battery Replacement:** While the outdoor sensor uses rechargeable Ni-MH batteries, their lifespan may vary. If the sensor frequently loses connection or provides inconsistent data, consider replacing the batteries.
- **Display Unit:** Wipe the display unit with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Winterization:** In areas with harsh winters, consider bringing the outdoor sensor indoors or protecting it from extreme conditions to prolong its lifespan.

7. TROUBLESHOOTING

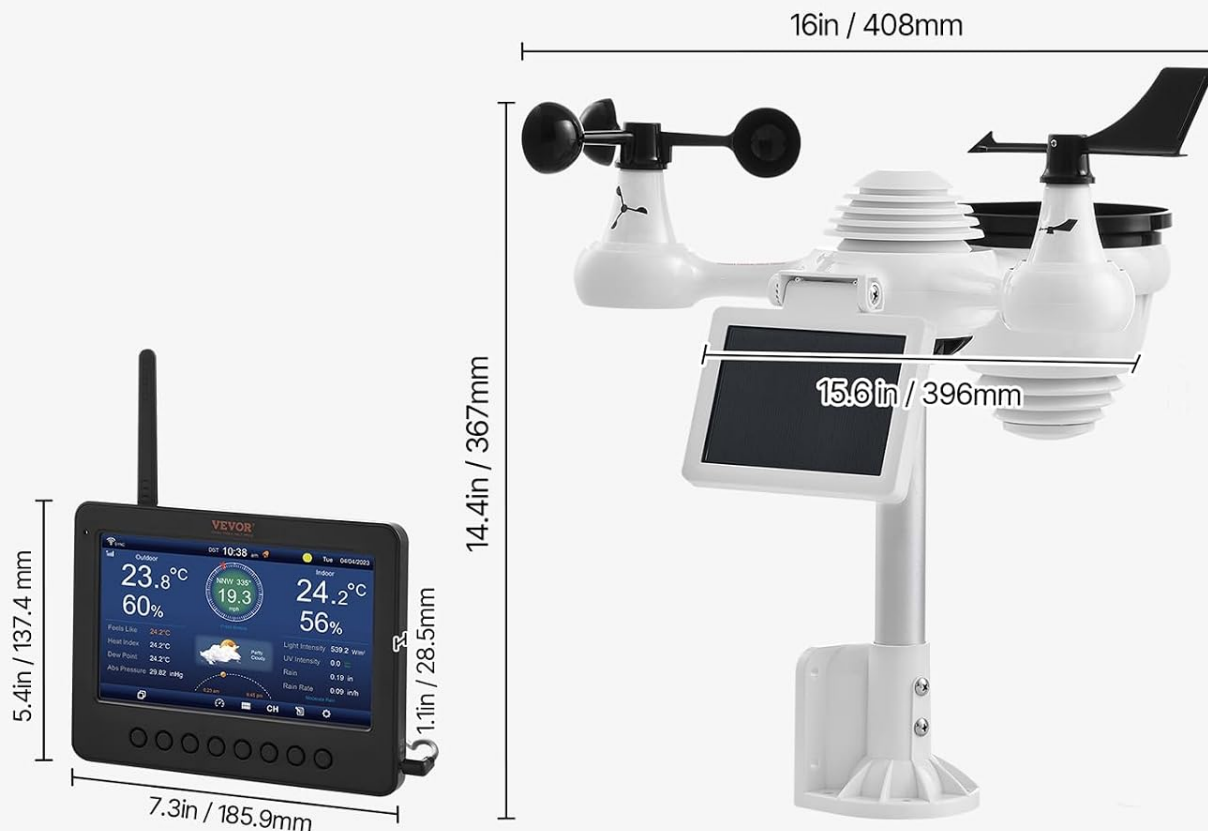
Problem	Possible Cause	Solution
No outdoor data displayed.	Sensor out of range, low sensor battery, interference.	Move units closer, check/replace sensor batteries, avoid interference sources (TVs, high-voltage lines). Re-pair sensor if necessary (refer to setup section).
Incorrect rainfall readings.	Rain collector blocked, tipping bucket mechanism stuck or installed incorrectly.	Clear debris from rain collector. Check the tipping bucket for obstructions or ensure it's correctly oriented (as mentioned in customer reviews, sometimes it can be backwards).
Inaccurate wind speed/direction.	Obstructions near sensor, cups/vane not rotating freely.	Ensure sensor is in an open area. Check for physical obstructions or damage to wind cups/vane.
Wi-Fi connection issues.	Incorrect Wi-Fi password, 5GHz network, router issues.	Verify Wi-Fi password. Ensure you are connecting to a 2.4GHz network. Restart router and display unit.
Display time is incorrect after restart.	Not yet synchronized with internet time.	Wait approximately 2 minutes after successful Wi-Fi connection for automatic synchronization.

8. SPECIFICATIONS

Parameter	Value
Brand	VEVOR
Model Number	YT60233
Power Source	Solar Powered
Connectivity Technology	Wi-Fi
Style	7-in-1 TFT WiFi Weather Station
Temperature Accuracy	1 °C
Sensor Battery	Ni-MH Battery: BPI-49AA2000mAh*3, 3.6V, 2000mA

Parameter	Value
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Solar Panel Size	4 x 3 in / 100 x 70 mm
Wi-Fi Operation Frequency	2.4 GHz
RF Frequency	915 MHz for US, 868 MHz for EU/AU/UK
Main Material	ABS+PC
Input	100-240V AC, 50/60 Hz, 0.4A
Output	5.0V DC, 1000 mA, 5W
IP Rating	IPX6
Net Weight	3 lbs / 1.36 kg
Package Dimensions	17.63 x 14.13 x 7.17 inches



Item Model Number: **YT60233**

Sensor Battery: **Ni-MH Battery:**
BPI-49AA2000mAh*3, 3.6V, 2000mA

Solar Panel Size: **4 x 3 in/100 x 70 mm**

Wi-Fi Operation Frequency: **2.4 GHz**

Solar Panel: **Illuminance 38000 LUX, 5.4V, 200mA**

RF Frequency: **915 MHz for US, 868 MHz for EU/AU/UK**

Main Material: **ABS+PC**

Input: **100-240V AC, 50/60 Hz, 0.4A**

Output: **5.0V DC, 1000 mA, 5W**

IP Rating: **IPX6**

Net Weight: **3 lbs/1.36 kg**

Figure 8.1: Product Dimensions and Specifications.

9. WARRANTY AND SUPPORT

VEVOR products typically come with a standard warranty. For specific warranty details, registration, or technical support, please refer to the warranty card included in your package or visit the official VEVOR website. You can also contact VEVOR customer service directly for assistance with any issues or questions regarding your weather station.

For further assistance, you may visit the VEVOR Store: [VEVOR Official Store on Amazon](#).

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

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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

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