VEVOR YT60231

VEVOR Wireless Weather Station 7-in-1 Instruction Manual

Model: YT60231

1. Product Overview

The VEVOR Wireless Weather Station 7-in-1 (Model YT60231) is a comprehensive weather monitoring system designed for both indoor and outdoor use. It provides real-time data on various weather parameters, including temperature, humidity, UV index, air pressure, wind speed, wind direction, and rainfall. The system features a large 7.5-inch color display for clear viewing and an outdoor sensor powered by a solar panel for efficient operation.

Figure 1: VEVOR Wireless Weather Station 7-in-1, showing the outdoor sensor and indoor display unit.

Key Features:

- **7-in-1 Outdoor Sensor:** Measures rainfall, wind direction, wind speed, temperature, humidity, UV, and light intensity.
- **Solar Powered Sensor:** Equipped with a large solar panel for long lifespan and no data loss, reducing the need for frequent battery changes.
- **7.5-inch Color Display:** Large, multi-functional display with 3-level dimming for clear visibility day and night.
- **Wireless Transmission:** Offers a transmission distance of up to 150 meters (492 feet) for flexible outdoor installation.
- **Multi-functional Display:** Provides intimate alerts for weather changes, including temperature, humidity, wind, and pressure.
- **No WiFi Connectivity:** This model operates without WiFi, relying on a 433 MHz wireless connection between the sensor and display.

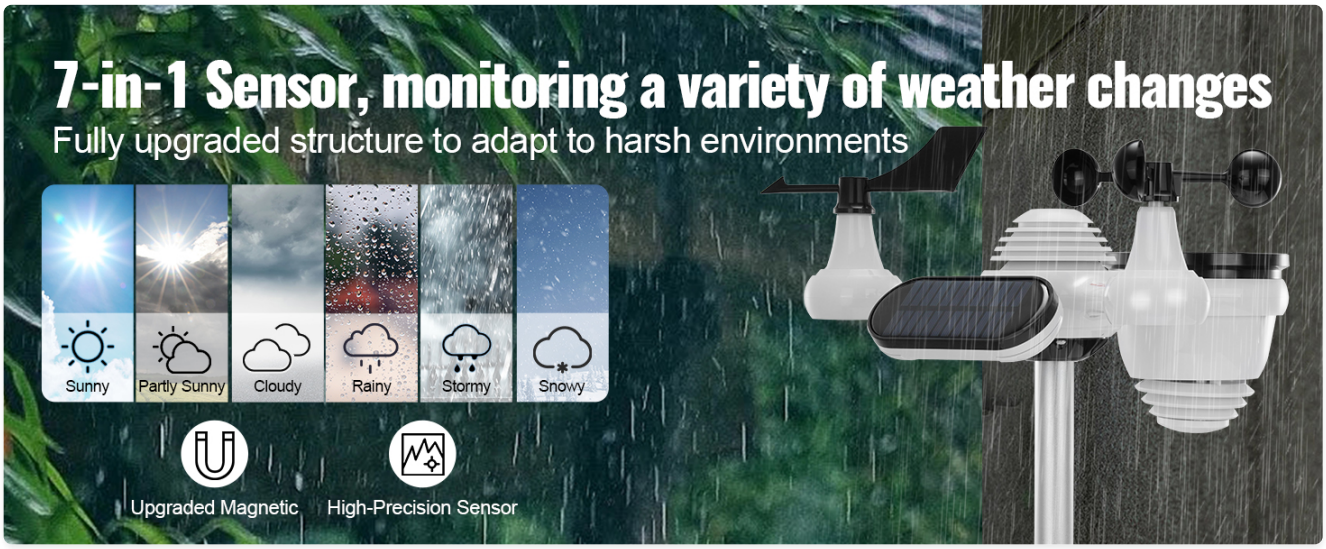

Figure 2: Detailed view of the 7-in-1 outdoor sensor components.

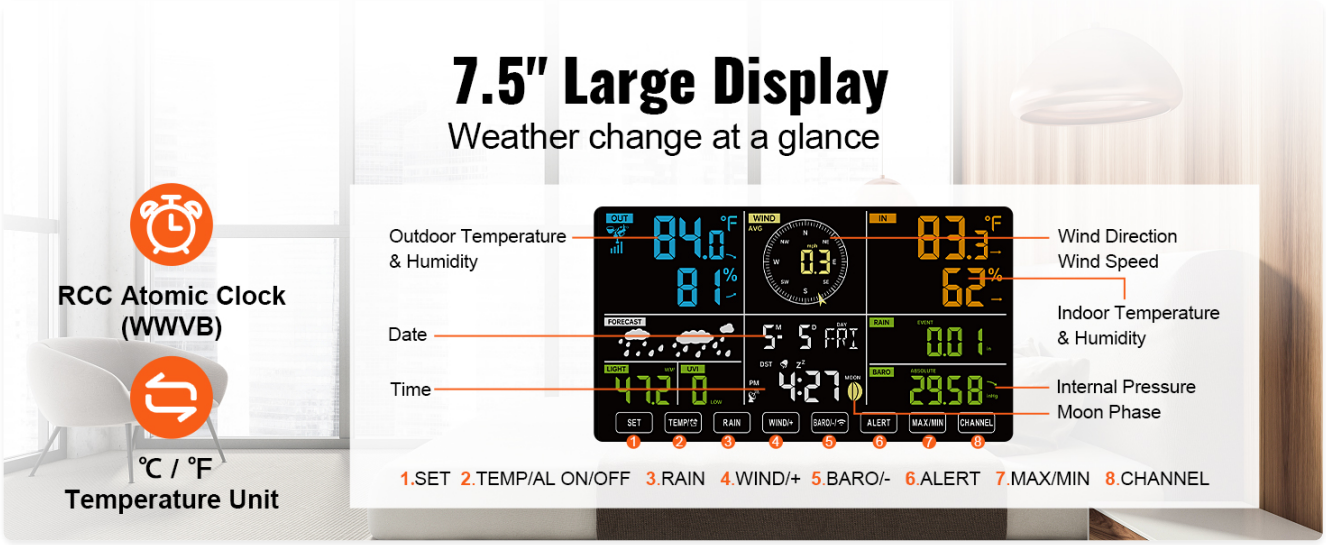

Figure 3: The 7.5-inch large display unit with labeled sections for various weather data.

2. Package Contents

Ensure all items are present and in good condition before proceeding with installation.

- 1 x Weather Station Display Unit
- 1 x Wireless 7-in-1 Outdoor Sensor
- 1 x Mounting Pole
- 1 x Mounting Bracket with Screws
- 1 x Screwdriver
- 1 x User Manual (PDF version available via product page)

Figure 4: All components included in the VEVOR Wireless Weather Station package.

3. Setup and Installation

Proper installation is crucial for accurate readings. Follow these steps carefully.

3.1 Outdoor Sensor Assembly

1. **Install Batteries:** Slide the switch to unlock the battery compartment on the outdoor sensor. Insert three AA batteries (not included) into the compartment. Close the compartment and slide the switch to lock.
2. **Attach Mounting Pole:** Insert the mounting pole into the base of the outdoor sensor and secure it with the provided screws using the screwdriver.
3. **Install Wind Speed Cups:** Align the screw holes in the wind speed cups with the flat, vertical side of the metal rod. Insert the wind speed cups onto the metal rod and screw on tight to lock it in place.
4. **Install Wind Direction Vane:** Similarly, align the screw holes in the wind direction vane with the flat, vertical side of the metal rod. Insert the wind direction vane onto the metal rod and screw on tight to lock it in place.
5. **Remove Rain Gauge Sticker:** Locate and remove the red sticker inside the rain gauge. This sticker protects the tipping bucket mechanism during transit.

6. **Remove Solar Panel Film:** Peel off the protective film covering the solar panel on the outdoor sensor.

Figure 5: Step-by-step assembly of the 7-in-1 outdoor sensor.

For a visual guide on sensor assembly, refer to the video below:

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Video 1: VEVOR Weather Station Wireless YT60231 - NO WIFI. This video demonstrates the physical assembly of the outdoor sensor, including battery installation, attaching wind cups and vane, and removing protective stickers. (Relevant sections: 0:00-0:06, 0:42-1:02)

3.2 Outdoor Sensor Mounting

Choose a location that allows for accurate readings and is free from obstructions. The sensor can be mounted on a pole, wall, or railing.

- **Orientation:** Ensure the rain collector faces North and the solar panel faces South for optimal performance. The southern hemisphere is in the opposite direction.
- **Leveling:** Use the built-in bubble level on the sensor to ensure it is mounted horizontally. This is critical for accurate rainfall and wind direction measurements.
- **Secure Mounting:** Use the provided mounting bracket and screws to securely attach the sensor to your chosen

location.

Figure 6: Various installation options for the outdoor sensor.

For a visual guide on mounting, refer to the video below:

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Video 2: Ready for the Rainy Season of Florida! Honest Review. This video demonstrates the mounting process of the outdoor sensor on a roof. (Relevant sections: 0:00-0:39)

3.3 Display Unit Setup

1. **Power On:** Plug the power adapter into the weather station display unit.
2. **Sensor Connection:** The display unit will automatically search for and connect to the wireless outdoor sensor. This may take a few minutes.
3. **Atomic Clock Synchronization:** After the RF connection is established (or within 5 minutes of pairing), the weather station will automatically receive the atomic clock signal. The RCC receiving dot icon will flash until synchronization is complete. Once successful, the time and date will be updated.

For a visual guide on display unit setup and initial connection, refer to the video below:

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Video 3: YT60231 VEVOR Wireless Weather Station Instructions for use. This video covers the initial setup of the display unit, including power-on and automatic sensor connection. (Relevant sections: 1:12-1:27)

4. Operating Instructions

The 7.5-inch color display provides a wealth of information and customizable settings.

4.1 Display Functions

The display is divided into several sections, each showing specific weather data:

- **Outdoor Temperature & Humidity:** Current readings from the outdoor sensor.
- **Wind Direction & Speed:** Real-time wind data.
- **Indoor Temperature & Humidity:** Readings from the display unit's internal sensors.
- **Weather Forecast:** Icon-based forecast for the next 12-24 hours.
- **Light Intensity & UV Index:** Measurements of ambient light and UV radiation.
- **Time & Date:** Synchronized via atomic clock.
- **Rainfall:** Current and historical rainfall data.

- **Barometric Pressure:** Absolute and relative pressure readings.
- **Moon Phase:** Displays the current moon phase.

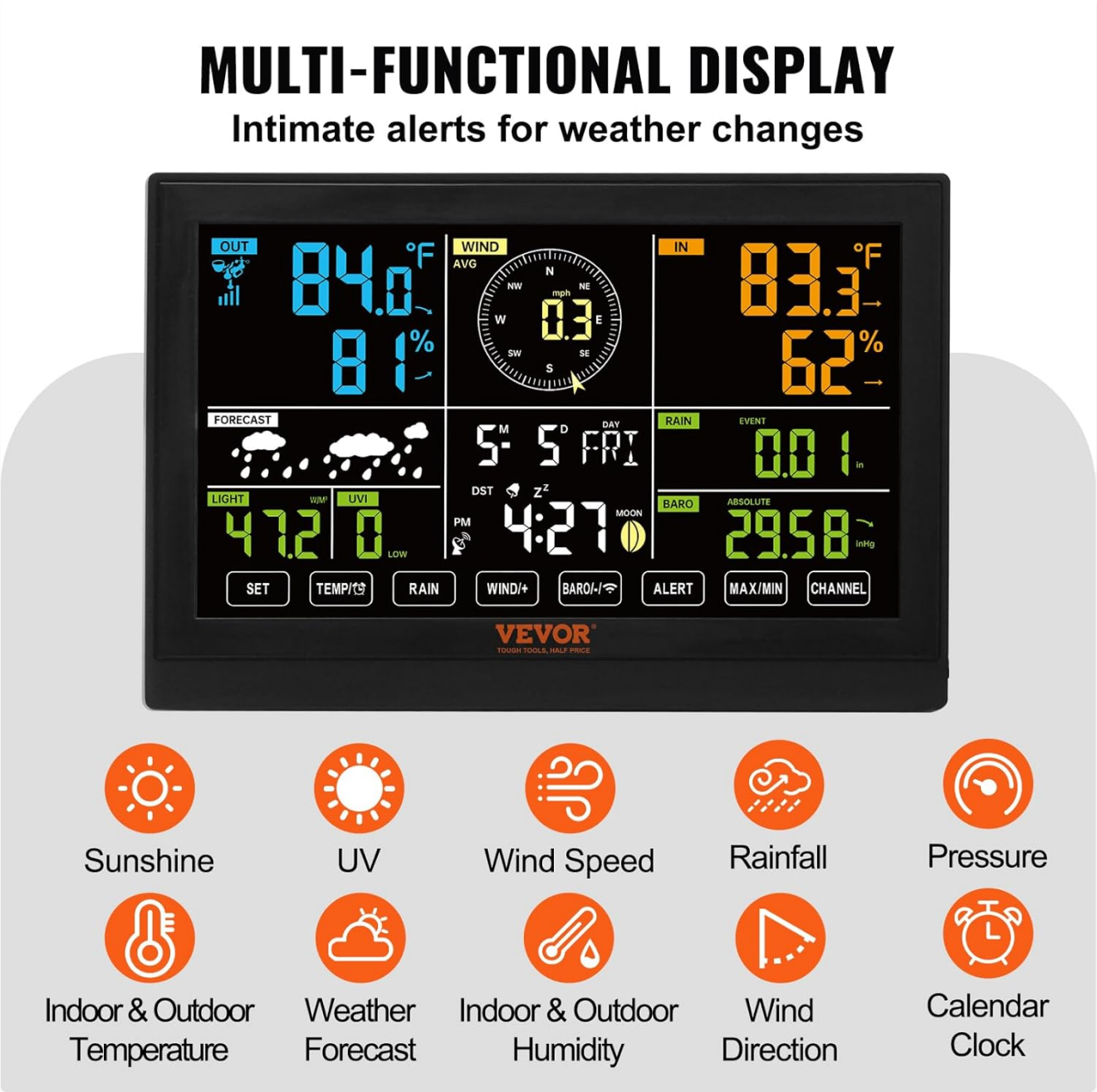

Figure 7: Overview of the multi-functional display showing all available data points.

4.2 Parameter Settings

You can customize various settings on the display unit using the buttons located at the bottom.

- **Dimming:** Adjust the display brightness to one of three levels (100%, 60%, 30%) for optimal viewing in different lighting conditions.
- **Units:** Change temperature units (°C/°F), pressure units (inHg/hPa), rainfall units (mm/in), and wind speed units (mph/km/h).
- **Time & Date:** Manually set or adjust time, date, and 12/24 hour format if atomic clock synchronization is not desired or available.
- **Alarms:** Set alarms for high/low temperature, wind speed, or other parameters.

For a detailed guide on setting parameters, refer to the video below:

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Video 4: YT60231 VEVOR Wireless Weather Station Instructions for use. This video provides comprehensive instructions on setting various parameters on the display unit, including time, date, units, and alarms. (Relevant sections: 1:28-2:24)

5. Maintenance

Regular maintenance ensures the longevity and accuracy of your weather station.

- **Battery Replacement:** Replace the AA batteries in the outdoor sensor when the low battery indicator appears on the display unit.
- **Rain Gauge Cleaning:** Periodically check the rain gauge for debris (leaves, dirt) that might obstruct the tipping bucket mechanism. Clean as needed to ensure accurate rainfall measurements.
- **General Cleaning:** Wipe down the outdoor sensor and display unit with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Sensor Placement:** Ensure the outdoor sensor remains horizontally level and free from obstructions. Check the bubble level periodically.

For visual guidance on battery replacement and rain gauge maintenance, refer to the videos in the Setup and Troubleshooting sections.

6. Troubleshooting

If you encounter issues with your weather station, refer to the common problems and solutions below.

1. **Wireless sensor does not communicate with the weather station:**
    - Ensure the outdoor sensor batteries are correctly installed and not depleted.
    - Place the weather station at least 3 ft (0.9 m) away from interference sources like electronic devices (TV, computer, microwave, radio, etc.).
    - Check for any physical obstructions between the sensor and the display unit that might block the 433 MHz signal.

    Refer to Video 5 for troubleshooting steps related to wireless communication. (Relevant sections: 2:31-2:36)
2. **Wind direction difference of 180°:**
    - If the displayed wind direction is 180° from the actual direction given by the wind vane, adjust the Hemisphere setting in the Parameter Settings.

    Refer to Video 4 for instructions on adjusting the Hemisphere setting. (Relevant sections: 2:21-2:24)
3. **Rain gauge does not record rainfall:**
    - Check if the red sticker inside the rain gauge (covering the tipping bucket) has been removed.
    - Ensure the sensor is mounted horizontally using the bubble level. Tilting can affect the tipping bucket mechanism.
    - Verify that the funnel inside the rain gauge can be turned over smoothly. If not, remove and reinstall it.
    - Ensure the magnet inside the rain gauge is installed facing inward.

    Refer to Video 5 for troubleshooting steps related to rainfall recording. (Relevant sections: 2:40-3:01)
4. **Incorrect wind speed:**
    - If Average Wind Mode is selected, the display shows the average wind speed over a 20-second period. If Gust Mode is selected, it shows the maximum wind speed over a 20-second period.
    - The actual wind speed is the current wind speed, and the weather forecast is the area wind speed.
    - For maximum and average wind speed data over a longer period, connect to a weather website (not applicable for this non-WiFi model).

Refer to Video 5 for more information on wind speed readings. (Relevant sections: 3:04-3:10)

5. **Abnormal outdoor temperature and humidity:**
    - Ensure the outdoor sensor is not exposed to direct sunlight for prolonged periods, which can cause elevated temperature readings.
    - Verify that the sensor is placed in a well-ventilated area, away from heat sources or reflective surfaces.

    Refer to Video 5 for troubleshooting steps related to temperature and humidity. (Relevant sections: 3:10-3:32)
6. **Incorrectly measured data:**
    - Ensure the sensor is mounted on a solid structure and the horizontal bubble is centered after installation. Inaccurate rainfall can occur if tilted.
    - Weather stations measure real-time weather data at the installation site, which is more accurate than general weather forecasts.
    - Due to signal filtering, it takes about an hour after switching on the sensor to get an accurate reading.
    - The product has been 100% tested and calibrated. The accuracy of the sensor is higher than common measuring instruments.
    - Indoor and outdoor environments are different, so the temperature readings will naturally differ.
    - A flashing LED on the sensor indicates it is transmitting data. Due to safety regulations, measurement data is transmitted once every 20 seconds.

    Refer to Video 5 for comprehensive details on data accuracy and transmission. (Relevant sections: 3:32-3:53)

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Video 5: VEVOR WiFi Weather Station 7-in-1, Weather Stations. This video provides troubleshooting tips and answers frequently asked questions regarding the weather station's operation and data accuracy. (Note: This product is "NO WiFi", but the video content is relevant for troubleshooting general issues.)

7. Specifications

Parameter	Value
Item Model Number	YT60231
RCC Format	WWVB
Time Display	HH : MM
Language (for week)	7 languages available
Temperature Unit	°C and °F
Hour Format	12 hour or 24 hour
Indoor Temperature Display Range	-11.4°F to 122°F (-9.90°C to 50°C)
Outdoor Temperature Display Range	-40°F to 158°F (-40°C to 70°C)
Indoor/Outdoor Humidity	1%-99%
Display Size	160 x 200 mm / 6.2 x 7.8 in
Solar Panel Size	5.1 x 2 in
Main Material	ABS+PC
Solar Panel Illuminance	36000LUX

Parameter	Value
IP Rating	IPX6
Operating Temperature	0 to 50°C
Wireless Transmission Range	492ft (150 m)
Sensor Dimensions	16 x 13.8 x 14.4 in
Net Weight	1.3 kg / 2.8 lbs
Temperature Accuracy	1 °C

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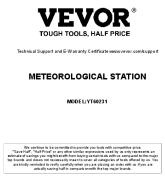
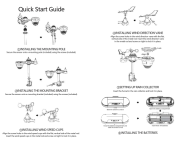
Indoor Temperature :	32°F-122°F (0°C-50°C) (Resolution: 0.1°F) **Accuracy:** 50 to 122°F: ± 1.8°F/10 to 50°C: ± 1°C -4 to 50°F : ± 2.7°F/-20 to 10°C : ± 1.5°C **Other :** ±3.6°F/±2°C
Outdoor Temperature :	-58°F-158°F (-50°C-70°C) (Resolution: 0.1°F) **Accuracy :** 50 to 122°F : ± 1.8°F/10 to 50°C : ± 1°C -4 to 50°F : ± 2.7°F/-20 to 10°C : ± 1.5°C **Others :** ±3.6°F/±2°C
Indoor Humidity :	1 - 99% (Resolution : 1%) **Accuracy :** 40 - 80% : ± 5% RH **Others :** ± 8%
Outdoor Humidity :	1-99% (Resolution : 1%) **Accuracy :** 40 - 80% : ± 5% RH **Other :** ± 8%
UV :	0 - 16
Light Intensity :	0 - 200 Klux
Rainfall :	0 - 12999 mm/0 - 511.7 in
Wind Direction :	16 directions/360°
Wind Speed :	**0 - 112mph**
Air Pressure :	600 - 1100 hPa/17.72 - 32.48inHg
Wireless Range :	492ft (150m)
Update Frequency :	20s

Figure 8: Comprehensive technical specifications of the weather station.

8. Warranty and Support

For any parts that are damaged or require replacement, please feel free to contact VEVOR customer service for assistance. Refer to your purchase documentation for specific warranty terms and contact information.

Related Documents - YT60231

	VEVOR YT60231 Wireless Meteorological Station User Manual Comprehensive user manual for the VEVOR YT60231 Wireless Meteorological Station. Learn how to set up, operate, and maintain your weather station for accurate indoor and outdoor temperature, humidity, wind speed, rainfall, UV, and light intensity readings, along with weather forecasting and alerts.
	VEVOR Meteorological Station YT60231: Quick Start & User Guide Comprehensive guide for the VEVOR Meteorological Station YT60231. Learn how to install, set up, and operate your wireless weather station for accurate indoor and outdoor environmental data.
	VEVOR Meteorological Station YT60231 Quick Start Guide Get started with your VEVOR Meteorological Station (Model YT60231). This quick start guide provides essential setup, installation, and operation instructions for monitoring indoor and outdoor weather conditions. Learn about features, package contents, and access support resources.
	VEVOR 7-in-1 Wireless Weather Station User Manual Comprehensive user manual for the VEVOR 7-in-1 Wireless Weather Station (Model YT60231), detailing product features, package contents, setup instructions, operation guide, specifications, and maintenance tips for accurate weather monitoring.
	VEVOR YT60231 Wireless Meteorological Station User Manual Comprehensive user manual for the VEVOR YT60231 Wireless Meteorological Station, covering setup, features, operating instructions, specifications, and maintenance.

VEVOR YT60310 Weather Station User Manual

This user manual provides comprehensive instructions for the VEVOR YT60310 Weather Station, covering setup, operation, features, and specifications for accurate weather monitoring.