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Aowutus Aowutus365

Aowutus 5-inch Outdoor Barometer Thermometer Hygrometer Instruction Manual

Model: Aowutus365

1. Introduction

This manual provides detailed instructions for the Aowutus 5-inch Outdoor Barometer Thermometer Hygrometer. This device is designed to accurately measure and display atmospheric pressure, ambient temperature, and relative humidity. Its 3-in-1 functionality makes it a versatile tool for monitoring environmental conditions in various settings, both indoors and outdoors.

2. Product Features

- **3-in-1 Functionality:** Integrates a barometer, thermometer, and hygrometer into a single unit.
- **Wide Measurement Ranges:** Measures atmospheric pressure from 970 to 1060 hPa, temperature from -20°F to 120°F, and humidity from 0% to 100% Rh.
- **Durable Construction:** Made from high-quality plastic, suitable for long-term use.
- **Dial Type Display:** Clear and easy-to-read analog dials for all three measurements.
- **Battery-Free Operation:** The device operates mechanically, requiring no batteries.
- **Versatile Placement:** Designed for both indoor and outdoor environments.

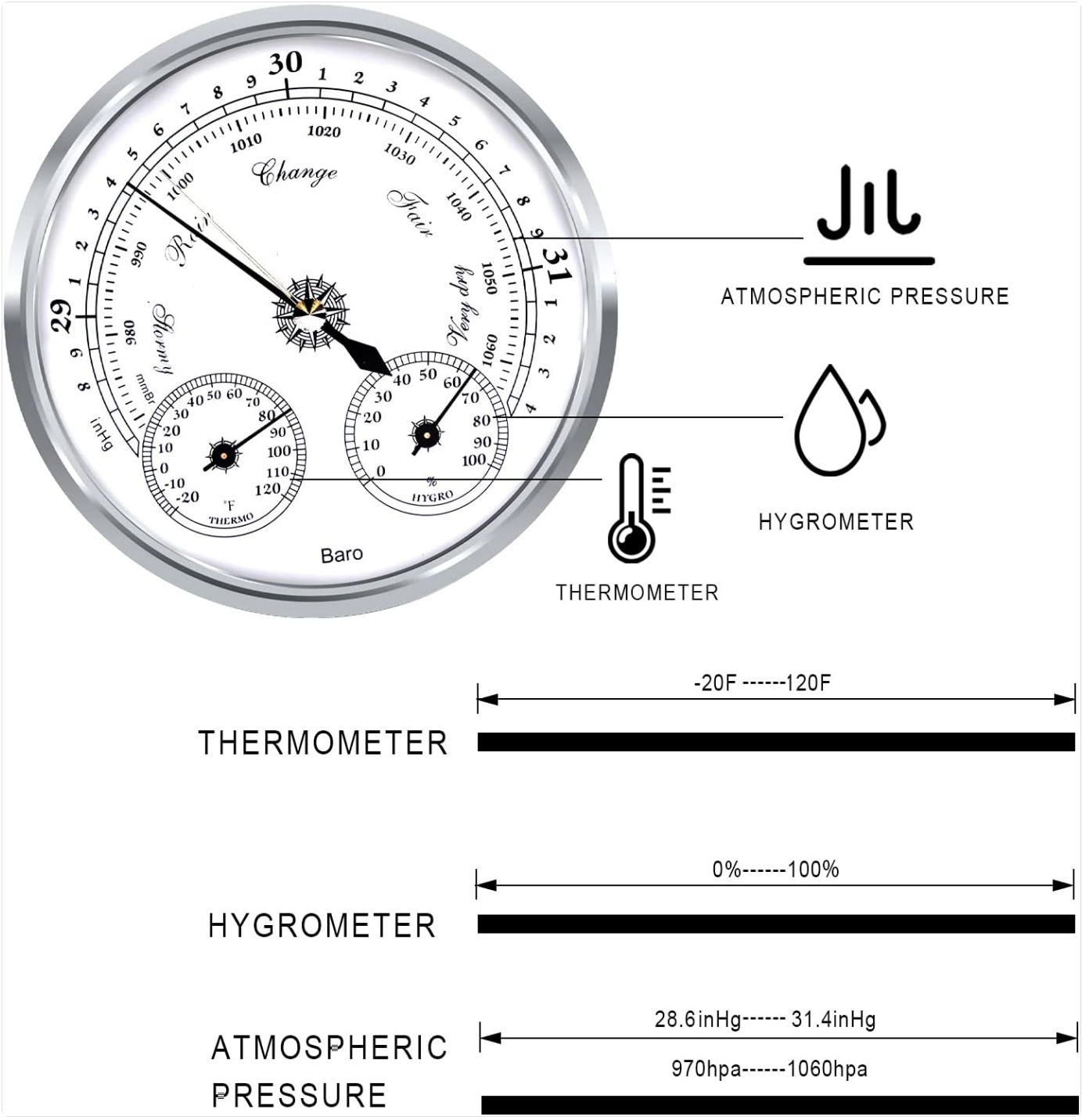


Figure 1: Diagram showing the atmospheric pressure, thermometer, and hygrometer functions with their measurement ranges.

3. Setup and Calibration

3.1 Unpacking

Carefully remove the Aowutus weather station from its packaging. Inspect the device for any visible damage. Retain the packaging for future storage or transport.

3.2 Placement

Select a suitable location for the device. For accurate readings, choose a spot that is representative of the environment you wish to monitor. If placing outdoors, ensure it is sheltered from direct sunlight, rain, and extreme weather conditions. For indoor use, avoid areas near heat sources (e.g., radiators, direct sunlight through windows) or air conditioning vents, as these can affect temperature and humidity readings. The device features a wall-mounting hole for easy installation.



Figure 2: Rear view of the device with wall mounting hole.

3.3 Barometer Calibration

The barometer requires initial calibration to your local atmospheric pressure for accurate readings. Follow these steps:

1. Obtain the current local atmospheric pressure from a reliable source, such as a local weather station, airport weather report, or an online weather service for your exact location.
2. Locate the small calibration screw on the back of the device (refer to Figure 3).
3. Using a small, flat-head screwdriver, carefully turn the calibration screw clockwise or counter-clockwise until the barometer needle on the main dial points to the current local atmospheric pressure you obtained.
4. Allow the device to acclimate for at least 30 minutes after calibration before taking critical readings.

Note: Barometers measure relative atmospheric pressure. Recalibration may be necessary if the device is moved to a significantly different altitude or after prolonged periods to ensure continued accuracy.



Figure 3: Product dimensions and location of the calibration screw on the back.

4. Operating Instructions

4.1 Reading the Barometer

The large central dial displays the atmospheric pressure. The main needle indicates the current pressure. Observe the movement of this needle over several hours:

- **Rising Pressure:** Generally indicates improving weather conditions (e.g., clearing skies, fair weather).
- **Falling Pressure:** Often suggests deteriorating weather conditions (e.g., approaching storms, rain).
- **Steady Pressure:** Implies stable weather conditions.

The dial is marked with general weather indications such as "Stormy," "Rain," "Change," "Fair," and "Very Dry" to assist in interpreting pressure trends. For the most accurate reading, gently tap the glass cover before observing the needle to ensure it has settled.

4.2 Reading the Thermometer

The lower-left dial indicates the ambient temperature in degrees Fahrenheit (°F). The range displayed is from -20°F to 120°F. Read the temperature directly from the needle's position on the scale.

4.3 Reading the Hygrometer

The lower-right dial shows the relative humidity in percentage (%). The range displayed is from 0% to 100% Rh. Read the humidity level directly from the needle's position on the scale.

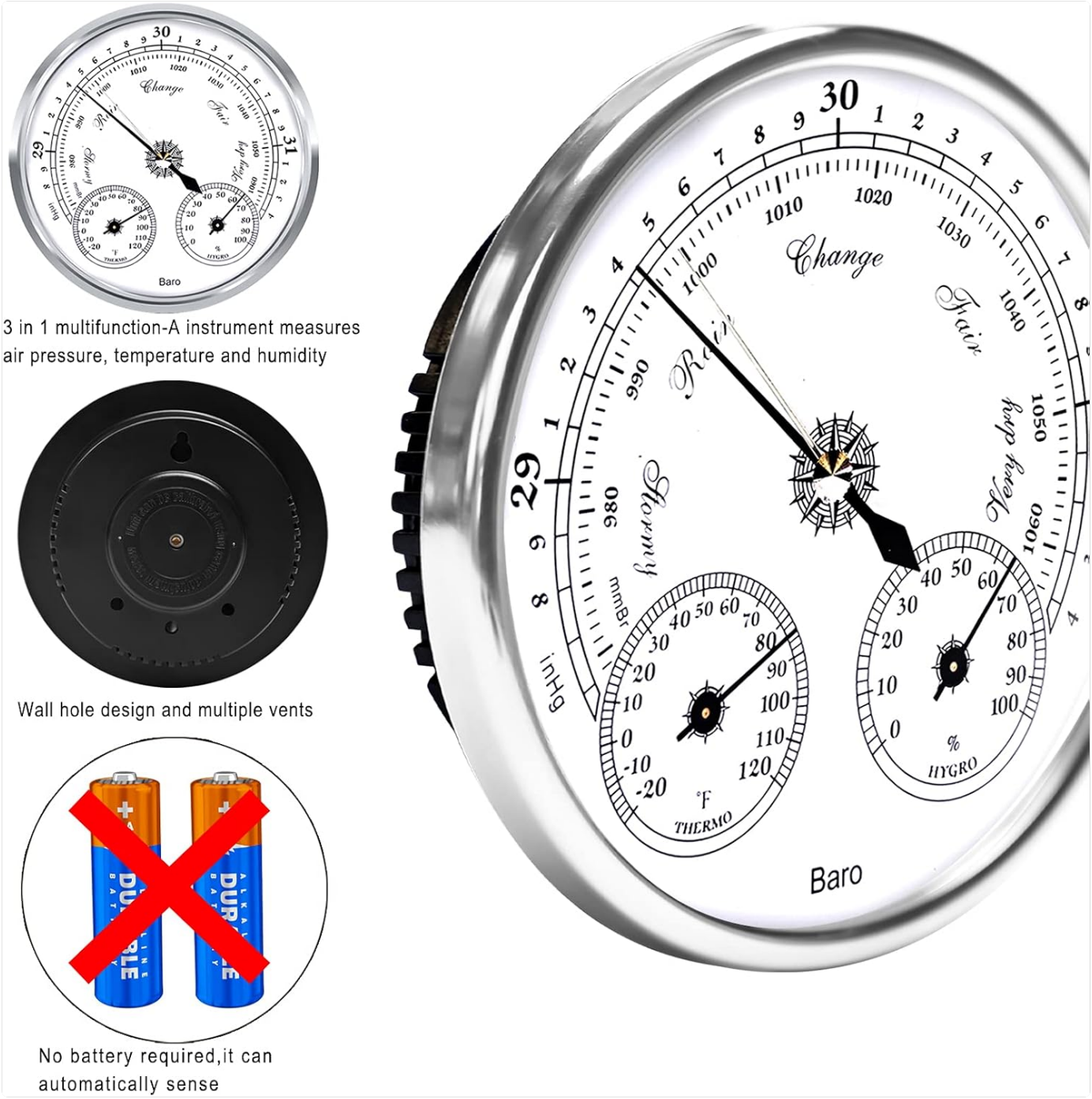


Figure 4: Close-up of the barometer, thermometer, and hygrometer dials.

5. Maintenance

- **Cleaning:** Wipe the device regularly with a soft, dry cloth to remove dust and smudges. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish or internal components.
- **Protection:** Avoid exposing the device to extreme vibrations, impacts, or direct water immersion.

- **Outdoor Use:** If used outdoors, periodically check the ventilation slots on the back of the device to ensure they are free from debris, which could affect readings.

6. Troubleshooting

6.1 Inaccurate Readings

- **Barometer:** If the barometer readings appear inaccurate, re-calibrate the device using a reliable local pressure source as described in Section 3.3. Ensure the device is not in an area with rapid or extreme temperature changes, which can temporarily affect the barometer's mechanism.
- **Thermometer/Hygrometer:** Ensure the device has been in its current location for at least 30 minutes to allow it to acclimate to the ambient conditions. Verify that it is not placed near direct heat sources, cold drafts, or in direct sunlight, which can skew readings.

6.2 Barometer Needle Not Moving

- Gently tap the glass cover of the device. Sometimes the needle can become temporarily stuck.
- Confirm that the calibration screw on the back is not overtightened or jammed, which could restrict needle movement.
- Ensure there are actual changes in atmospheric pressure in your area. The barometer reacts to pressure fluctuations, not just absolute pressure. Consult a local weather report to confirm pressure changes.

7. Specifications

Feature	Specification
Brand	Aowutus
Model Number	Aowutus365
Product Dimensions	1.5"D x 5.1"W x 5.1"H
Item Weight	5.6 ounces (0.16 Kilograms)
Material	Plastic
Display Type	Dial
Barometer Range	970 to 1060 hPa (28.6 to 31.4 inHg)
Thermometer Range	-20°F to 120°F
Hygrometer Range	0% to 100% Rh
Power Source	Air Pressure (No batteries required)
Included Components	Instruction Manual

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