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› BOZYBO Digital Atomic Weather Station KA001 User Manual

BOZYBO KA001

BOZYBO Digital Atomic Weather Station KA001 User Manual

Model: KA001

Brand: BOZYBO

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your BOZYBO Digital Atomic Weather Station KA001. This device offers comprehensive indoor and outdoor temperature and humidity monitoring, an atomic clock with calendar, moon phase display, and weather forecasting.

2. SAFETY INFORMATION

- Do not expose the main unit or remote sensor to excessive force, shock, dust, temperature, or humidity.
- Do not immerse the unit in water.
- Do not remove any screws or attempt to disassemble the unit.
- Do not dispose of old batteries with household waste. Follow local regulations for proper disposal.
- Use only the specified power adapter.

3. PACKAGE CONTENTS

The package includes:

- BOZYBO Digital Atomic Weather Station (Main Unit)
- Wireless Outdoor Sensor (1 unit)
- DC Power Charger
- User Manual (this document)

4. PRODUCT OVERVIEW

The BOZYBO KA001 Weather Station features a 9.3-inch HD full-color screen for clear visibility from various angles. It displays comprehensive environmental data and time information.

Key Features:

- **9.3" HD Full Color Display:** Shows indoor/outdoor temperature and humidity, air pressure, moon phase, calendar, atomic clock, weather forecast, and outdoor index.
- **Atomic Clock (WWVB) & DST Function:** Automatically adjusts time daily and for Daylight Saving Time.
- **Adjustable Backlight:** Three brightness levels (Bright-Low-Dimmed-Off) when plugged in; 10-second backlight for battery power.
- **Multi-Sensor Support:** Pairs with up to 3 remote sensors (one included) for monitoring multiple locations.
- **Weather Forecast:** Predicts local weather for the next 12-24 hours based on air pressure history.
- **Comfort Icon:** Indicates indoor comfort levels.

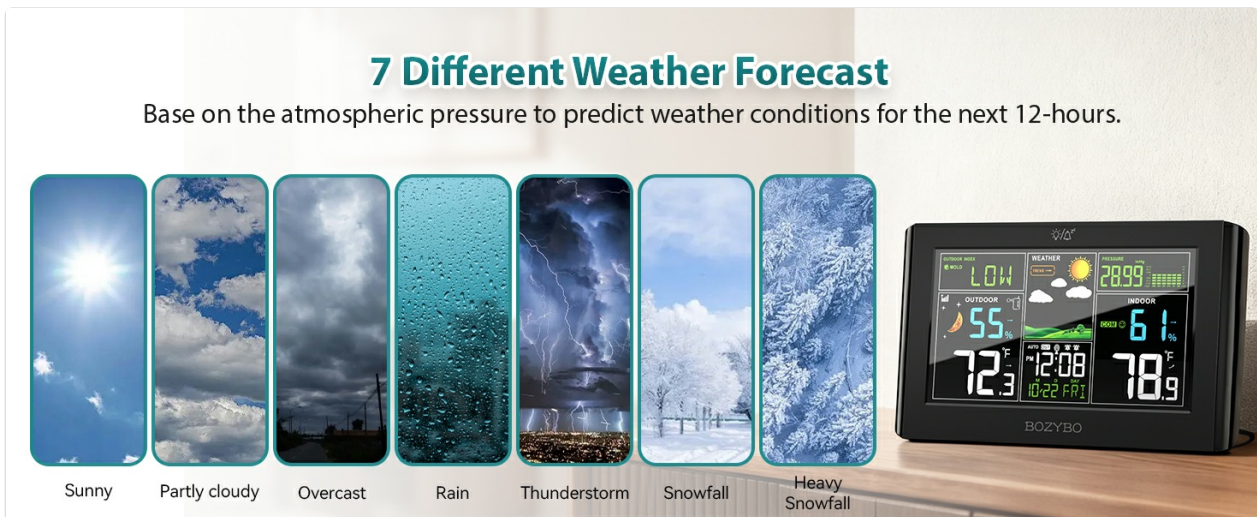


Image: The BOZYBO Weather Station features a multi-angle viewable screen, ensuring clear visibility from various positions.

5. SETUP

5.1 Powering the Main Unit

The main unit can be powered by the included DC adapter or by batteries for backup. For continuous display and full backlight functionality, use the DC adapter.

- **DC Power:** Connect the DC power charger to the main unit and plug it into a standard electrical outlet.
- **Battery Backup:** Insert 3 x AAA batteries (not included) into the battery compartment on the back of the main unit. These batteries serve as a backup in case of power outage.



Image: The main unit can be powered by a DC adapter for continuous use or by batteries for backup power.

5.2 Installing Batteries in Remote Sensor

The wireless outdoor sensor requires 2 x AA batteries (not included). Open the battery compartment on the back of the sensor and insert the batteries, observing the correct polarity (+/-).

5.3 Pairing Remote Sensor

Once batteries are installed in both the main unit and the remote sensor, the sensor will automatically attempt to pair with the main unit. Place the remote sensor within range (up to 328 feet in open areas) of the main unit. The outdoor temperature and humidity should appear on the main unit's display.



Image: The weather station supports up to three remote sensors, allowing monitoring of multiple locations.

5.4 Initial Time and Date Settings (Atomic Clock & DST)

The weather station receives the WWVB atomic clock signal to automatically set the time and date. Ensure the main unit is placed in an area where it can receive this signal.

- **Time Zone Selection:** Use the appropriate buttons (refer to the main unit's controls) to select your time zone (PST, MST, CST, EST).
- **DST Function:** The Daylight Saving Time (DST) function will automatically adjust the time forward or backward by one hour as needed.



Image: The atomic clock receives WWVB signals for real-time adjustments, and the DST function handles daylight saving changes automatically.

5.5 Placement

The main unit can be placed on a tabletop using its integrated stand or mounted on a wall. Choose a location that allows for good visibility and optimal signal reception for the atomic clock and remote sensor.



Image: The weather station can be conveniently placed on a tabletop or mounted on a wall.

6. OPERATING INSTRUCTIONS

6.1 Display Overview

The 9.3-inch color display provides a clear overview of various data points:

- **Indoor/Outdoor Temperature & Humidity:** Current readings for both environments.
- **Air Pressure & History:** Displays current atmospheric pressure and historical data.
- **Moon Phase:** Shows the current lunar phase.
- **Calendar & Atomic Clock:** Current date, day of the week, and precise time.
- **Weather Forecast & Trend:** Icons indicating predicted weather conditions for the next 12-24 hours.
- **Outdoor Index:** Additional outdoor environmental information.

6.2 Adjusting Backlight

- **When Plugged In:** The monitor brightness can be adjusted to four levels: Bright, Low, Dimmed, or Off. Use the designated button on the unit to cycle through these settings.
- **When Battery Powered:** To conserve power, the backlight will automatically turn off after 10 seconds of inactivity. Press any button to temporarily illuminate the display.



Image: The display backlight offers four adjustable levels for optimal viewing in various lighting conditions.

6.3 Weather Forecast

The weather station forecasts local weather conditions for the next 12-24 hours by monitoring atmospheric pressure and its history. For accurate forecasts, allow 7-10 days for the unit to analyze air pressure data after initial setup.



Tips: Insert battery as backup even when it is plug in outlet.



Image: The weather station provides forecasts using icons for conditions such as sunny, partly cloudy, overcast, rain, thunderstorm, snowfall, and heavy snowfall.

6.4 Comfort Icon

The comfort icon on the display indicates the indoor comfort level based on the current indoor humidity. This helps you maintain an optimal indoor environment.

6.5 Multiple Remote Sensors

If you have purchased additional remote sensors (up to 3 total), you can monitor temperature and humidity in different areas like a nursery, storage room, or wine cellar. Use the 'CHANNEL' button on the main unit to cycle through the readings from each paired sensor.

COMPATIBLE WITH 3 REMOTE SENSOR

328FT Wireless Transmission in Open Areas



Package Come with 1 Sensor only

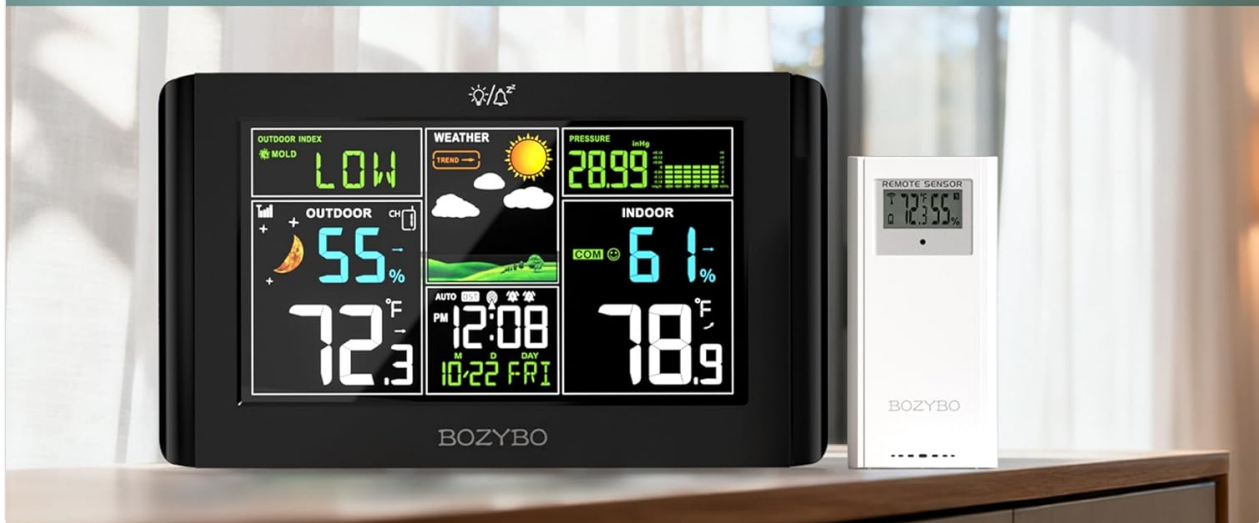


Image: The weather station can connect to up to three remote sensors, allowing monitoring of conditions in different rooms or outdoor areas.

7. MAINTENANCE

7.1 Cleaning

Wipe the main unit and remote sensor with a soft, dry cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these may damage the surfaces or internal components.

7.2 Battery Replacement

Replace batteries in the main unit (backup) and remote sensor when the low battery indicator appears on the display. Ensure correct battery type and polarity.

8. TROUBLESHOOTING

- **No Outdoor Reading:** Check if the remote sensor batteries are installed correctly and are not depleted. Ensure the sensor is within the wireless range of the main unit and free from major obstructions. Try repairing the sensor by removing and reinserting batteries in both units.
- **Inaccurate Weather Forecast:** The weather station requires 7-10 days to calibrate and analyze local air pressure history for accurate forecasting. Allow sufficient time after initial setup.
- **Atomic Clock Not Setting:** Ensure the main unit is placed in an area with good reception for the WWVB

signal, away from electronic interference. Verify the correct time zone is selected. Manual time setting may be an option if atomic signal is consistently weak.

- **Display Issues:** If the display is dim or blank, check the power connection (DC adapter) or replace the backup batteries. Adjust the backlight settings if the unit is plugged in.
- **Temperature/Humidity Discrepancies:** Allow both the main unit and remote sensor to stabilize for at least 30 minutes after setup. Ensure sensors are not exposed to direct sunlight, heat sources, or extreme drafts.

9. SPECIFICATIONS

Feature	Specification
Brand	BOZYBO
Model	KA001
Display Type	LCD
Main Unit Dimensions	2"D x 6"W x 5.5"H
Remote Sensor Dimensions	Approx. 2"D x 1"W x 4.1"H
Power Source (Main Unit)	DC Electric Charge (Primary), Battery Powered (Backup)
Power Source (Remote Sensor)	Battery Powered (2x AA, not included)
Connectivity Technology	Wireless
Temperature Accuracy	±1°C
Max Remote Sensors	3 (one included)
Wireless Range	Up to 328 feet (open areas)
Material	Acrylonitrile Butadiene Styrene (ABS)
Color	Black
Included Components	Weather Station, Power Charger, User Manual

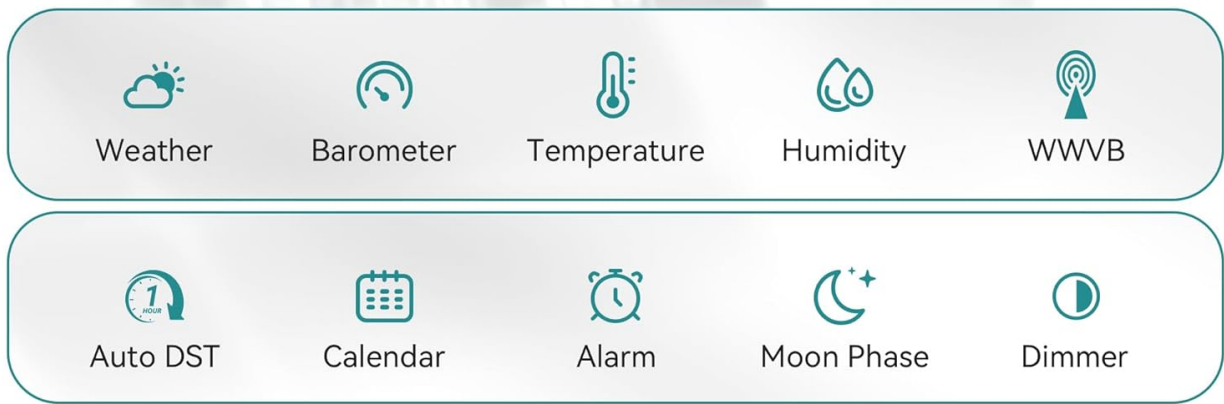


Image: Dimensions of the main weather station unit and the remote sensor.

10. WARRANTY INFORMATION

Your BOZYBO Digital Atomic Weather Station KA001 is covered by a 1-year limited warranty from the date of purchase. This warranty covers manufacturing defects and workmanship. It does not cover damage caused by misuse, accident, unauthorized modification, or improper installation. Please retain your proof of purchase for warranty claims.

11. SUPPORT

For technical support, troubleshooting assistance, or warranty inquiries, please contact BOZYBO customer service. Refer to the contact information provided on the product packaging or the official BOZYBO website.