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Model: Weather Station Mini

1. INTRODUCTION

Thank you for choosing the KALEVOL Weather Station Mini. This device is designed to provide comprehensive environmental information, including indoor and outdoor temperature and humidity, atmospheric pressure, weather forecasts, time, date, and moon phases. Its color display with adjustable backlight ensures clear readability, making it an essential tool for monitoring your environment.



Figure 1.1: KALEVOL Weather Station Mini and Wireless Outdoor Sensor

2. PACKAGE CONTENTS

- 1 x KALEVOL Weather Station Mini (Main Unit)
- 1 x Wireless Outdoor Sensor
- 1 x Instruction Manual (this document)
- 1 x DC Power Adapter (for main unit)

Note: 2xAA batteries for the main unit and 2xAAA batteries for the wireless remote sensor are not included.

3. PRODUCT OVERVIEW AND FEATURES

The KALEVOL Weather Station Mini offers a variety of features designed for convenience and accuracy:

- **Digital Color Display:** Provides clear and comprehensive information at a glance.
- **Indoor/Outdoor Temperature & Humidity:** Monitors environmental conditions both inside and outside your home.

- **Atmospheric Pressure Index:** Displays current barometric pressure and historical changes over 12 hours.
- **Weather Forecast:** Predicts upcoming weather conditions (sunny, slightly cloudy, rainy, heavy rainy, snowy).
- **Atomic Clock Function:** Automatically calibrates time based on your chosen time zone.
- **Adjustable Backlight:** Features 4 levels of adjustable backlight for optimal viewing in various lighting conditions.
- **Alarm Clock:** Includes an alarm function for daily routines.
- **Moon Phase Display:** Shows the current moon phase.
- **Dual Power Modes:** Can be powered by DC adapter or batteries for flexible placement.
- **Wireless Transmission:** Supports up to 3 channels for remote sensors with a transmission range of up to 200ft/60m.



Figure 3.1: Detailed view of the weather station's colorful digital display and dimensions.

CHANNEL 1 CYCLIC MODE MOON PHASE

TEMPERATURE ALERT COMFORT INDICATOR

3 CHANNELS FOR INDOOR & OUTDOOR

TRANSMISSION RANGE: 200FT/60M

The digital display shows:
TREND: Partly cloudy
FORECAST: Partly cloudy
1009 hPa
73.6 °F (IN) / 80.4 °F (OUT)
68% (IN) / 57% (OUT)
10:30 SU
SET/MODE ALARM

Figure 3.2: Illustration of multi-channel wireless transmission for indoor and outdoor monitoring.



Figure 3.3: Visual representation of the weather forecast icons.



Figure 3.4: Moon phase display on the weather station.

4. SETUP GUIDE

4.1 Powering the Units

The main unit can be powered by the included DC adapter or 2xAA batteries (not included). The wireless remote sensor requires 2xAAA batteries (not included).

1. Insert 2xAA batteries into the main unit, observing polarity.
2. Alternatively, connect the DC power adapter to the main unit and plug it into a power outlet.
3. Insert 2xAAA batteries into the wireless remote sensor, observing polarity.

POWER MODE

WEATHER STATION

DC Adapter/2×AA(Not included)

WIRELESS REMOTE SENSOR

2×AAA(Not included)



Figure 4.1: Powering the main unit and wireless remote sensor.

4.2 Initial Pairing and Placement

For successful connection, ensure the main unit and sensor are placed close to each other during initial setup.

1. Place the main unit and the wireless remote sensor together.
2. Confirm that the two devices have successfully connected. The outdoor temperature and humidity readings should appear on the main unit's display.
3. Once connected, place the wireless remote sensor outdoors in a sheltered location, away from direct sunlight and precipitation, to ensure accurate readings. The maximum transmission range is 200ft/60m.





**WIRELESS INDOOR & OUTDOOR
TRANSMISSION WITH MAX/MIN
TEMPERATURE ALERTS**

Figure 4.2: Wireless transmission setup for indoor and outdoor units.

4.3 Atomic Clock Synchronization

The weather station automatically calibrates the time via WWVB signal.

- When plugged in or after a reset, the device will automatically search for the WWVB signal at 1:00 AM, 2:00 AM, and 3:00 AM.
- During the search, the screen may turn dark for approximately 7 minutes. This is normal behavior.

5. OPERATING INSTRUCTIONS

5.1 Display Overview

The main display provides various pieces of information:

- **Top Section:** Weather forecast, atmospheric pressure trend, and barometric pressure readings.
- **Middle Left:** Indoor temperature and humidity, comfort indicator.
- **Middle Right:** Outdoor temperature and humidity.

- **Bottom Section:** Time, date, day of the week, and moon phase.

5.2 Adjusting Backlight

Press the **Brightness Adjustment Button** (often marked with a sun or light icon) on the main unit to cycle through the 4 adjustable backlight levels.

5.3 Setting Time and Alarm

Refer to the specific buttons on your device (e.g., SET/MODE, ALARM, +/-) for detailed time and alarm setting procedures. Typically, you will press and hold the SET/MODE button to enter setting mode, then use +/- to adjust values and SET/MODE to confirm and move to the next setting.



Figure 5.1: The weather station's alarm function can help establish a healthy routine.

6. MAINTENANCE

To ensure the longevity and accuracy of your KALEVOL Weather Station Mini, follow these maintenance guidelines:

- **Cleaning:** Wipe the main unit and sensor with a soft, damp cloth. Do not use abrasive cleaners or solvents.

- **Battery Replacement:** Replace batteries in both units when the low battery indicator appears on the display. Ensure correct polarity.
- **Sensor Placement:** Periodically check the outdoor sensor's placement to ensure it remains sheltered from direct elements and is within effective transmission range.
- **Storage:** If storing the device for an extended period, remove all batteries to prevent leakage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Outdoor temperature/humidity not displayed or inaccurate.	Sensor out of range, low sensor battery, interference, or sensor not paired.	Ensure sensor is within 200ft/60m of main unit. Replace sensor batteries. Re-pair sensor by removing batteries from both units, then reinserting into main unit first, then sensor.
Screen turns dark or doesn't stay on after power-up/reset.	Device is searching for WWVB signal.	This is normal during the 7-minute WWVB signal search. If it persists, press the brightness adjustment button.
Time is incorrect.	WWVB signal not received or incorrect time zone setting.	Ensure main unit is in a location with good signal reception. Manually set time zone if needed. Allow time for automatic synchronization.
Display is dim or unreadable.	Low main unit battery or backlight setting too low.	Replace main unit batteries or connect DC adapter. Press the brightness adjustment button to increase backlight level.

8. SPECIFICATIONS

Feature	Detail
Brand	KALEVOL
Model	Weather Station Mini
Specific Uses	Thermometer, Humidity Monitor, Alarm
Power Source (Main Unit)	DC Adapter / 2xAA Batteries (not included)
Power Source (Sensor)	2xAAA Batteries (not included)
Special Features	Adjustable Brightness, Humidity Monitor, Atomic Clock, Barometer, Moon Phase
Connectivity Technology	Wireless
Color	black or white
Temperature Accuracy	±1 °C
Display Type	LCD
UPC	722831470103
Item Weight	11.9 ounces
Package Dimensions	6.69 x 5.28 x 2.76 inches

9. WARRANTY AND SUPPORT

KALEVOL stands behind the quality of its products. This weather station comes with:

- Amazon's 30-day return policy.
- An additional 12-month warranty.
- Lifetime technical support.

For any technical assistance or inquiries, please contact KALEVOL customer support. We aim to reply within 24 hours.

You can also refer to the official Instructions for Use (IFU) PDF for additional details.