KALEVOL 3378-white

KALEVOL Weather Station User Manual

Model: 3378-white
Brand: KALEVOL

Introduction

Thank you for choosing the KALEVOL Wireless Indoor Outdoor Weather Station. This device provides comprehensive weather information including indoor and outdoor temperature and humidity, weather forecasts, atomic clock time, sunrise/sunset times, and tide levels. Please read this manual carefully before use to ensure proper setup and operation.



Figure 1: KALEVOL Weather Station Main Unit and Wireless Remote Sensor

This image displays the main weather station unit with its large color display and the compact wireless outdoor sensor.

Package Contents

- 1 x KALEVOL Weather Station Main Unit
- 1 x Wireless Outdoor Sensor
- 1 x Power Adapter (for main unit)
- 1 x User Manual

Note: 2x AA batteries for the main unit and 2x AA batteries for the wireless sensor are NOT included and must be purchased separately.

Product Overview

Main Unit Display Features



Figure 2: Main Unit Display Features and Dimensions

This image highlights the main unit's dimensions (8.1 inches wide, 5.1 inches high) and key display features including Sunrise/Sunset, Tide Level, Moon Phase, Air Pressure, Radio-controlled Time Function, Temperature and Humidity, Weather Forecasting, and USB Port for Charging Mobile Devices.

- **Indoor/Outdoor Temperature & Humidity:** Displays current readings and records MAX/MIN values.
- **Weather Forecast:** Icons indicate predicted weather conditions (Sunny, Slightly Cloudy, Cloudy, Rainy, Heavy Rainy, Snowy).
- **Atomic Clock:** Automatically synchronizes time for accuracy.
- **Sunrise/Sunset Time:** Provides local sunrise and sunset times.
- **Tide Level:** Indicates high, medium, or low tide.
- **Moon Phase:** Displays the current phase of the moon.
- **Air Pressure:** Shows current barometric pressure and historical trend.
- **Comfort Indicator:** Visual representation of indoor comfort level.
- **Temperature Alerts:** Customizable high/low temperature alarms.
- **Adjustable Backlight:** Multiple brightness levels for optimal viewing.

- **USB Charging Port:** Convenient port for charging external devices.

Setup

1. Powering the Main Unit

The main unit can be powered by the included AC adapter for continuous backlight display or by 2x AA batteries (not included) for portable use with a temporary backlight.

1. **AC Power:** Insert the small end of the power adapter into the DC IN port on the back of the main unit. Plug the other end into a standard wall outlet.
2. **Battery Power:** Open the battery compartment on the back of the main unit. Insert 2x AA batteries, observing the correct polarity (+/-). When powered by batteries, the backlight will illuminate for 15 seconds after pressing any button.



Figure 3: Powering the Main Unit and Wireless Sensor

This image illustrates how to connect the AC adapter to the main unit and how to insert AA batteries into both the main unit and the wireless

2. Installing Sensor Batteries

The wireless outdoor sensor requires 2x AA batteries (not included).

1. Open the battery compartment on the back of the wireless sensor.
2. Insert 2x AA batteries, ensuring correct polarity (+/-).
3. Close the battery compartment securely.

3. Sensor Placement and Pairing

Place the wireless sensor outdoors in a shaded, dry location, protected from direct sunlight and precipitation. Ensure it is within the 200ft/60m transmission range of the main unit.

1. After inserting batteries into both the main unit and the sensor, the main unit will automatically search for the sensor signal. This may take a few minutes.
2. The outdoor temperature and humidity will appear on the main unit's display once connected.
3. If the connection is not established, press and hold the "CHANNEL" button on the main unit to initiate a manual search, and press the "TX" button inside the sensor's battery compartment to send a signal.



Figure 4: Wireless Sensor Placement and Multi-Channel Capability

This image demonstrates the flexibility of placing up to three wireless sensors in various indoor or outdoor locations, highlighting the 200ft/60m transmission range.



Figure 5: Wireless Indoor and Outdoor Transmission

This image illustrates the wireless communication between the main unit and the outdoor sensor, emphasizing the convenience of receiving outdoor data indoors.

4. Initial Time and Date Setup (Atomic Clock)

The weather station features an atomic clock that automatically synchronizes with the WWVB radio signal for accurate time. This process may take several hours, especially during initial setup or after a power loss.

1. Place the main unit near a window for better signal reception.
2. The atomic clock icon will flash during synchronization and become solid once successful.
3. **Manual Time Setting:** If the atomic clock signal is unavailable, you can set the time manually. Refer to the "Operating Instructions" section for detailed steps on manual time and date adjustment.



Figure 6: Atomic Clock Synchronization

This image depicts the weather station's ability to synchronize with an atomic clock signal, represented by a radio tower icon and a map of the USA.

Operating Instructions

1. Display Information

The main unit's color display is divided into several sections, providing a quick overview of various data points:

- **Outdoor Section (Left):** Outdoor temperature, humidity, and MAX/MIN records.
- **Forecast Section (Center Top):** Weather forecast icons and trend indicator.
- **Indoor Section (Right):** Indoor temperature, humidity, and comfort level.
- **Time & Date Section (Center Bottom):** Current time, date, and day of the week.
- **Additional Data (Bottom Left/Right):** Sunrise/Sunset times, Tide Level, Moon Phase, Air Pressure history.

2. Adjusting Backlight Brightness

When powered by the AC adapter, the backlight is continuously on and can be adjusted to four brightness levels. When powered by batteries, the backlight activates for 15 seconds after a button press.



Figure 7: Backlight Adjustment Modes

This image demonstrates the two power modes (AC adapter for continuous backlight, batteries for 15-second backlight) and the five adjustable brightness levels (100%, 75%, 50%, 25%, 10%) when using AC power.

To adjust brightness (AC power): Press the "LIGHT" button repeatedly to cycle through the brightness levels.

3. Alarm Function

The weather station includes an alarm function to help you maintain a healthy lifestyle.



Figure 8: Alarm Function for Daily Routine

This image shows the weather station being used in a bedroom setting, illustrating its alarm function for waking up and its suitability for use during sleeping hours.

Refer to the specific button instructions on your device for setting the alarm time and activating/deactivating it.

4. Weather Forecast

The weather station predicts weather conditions for the next 12-24 hours based on changes in barometric pressure. The forecast icons include Sunny, Slightly Cloudy, Cloudy, Rainy, Heavy Rainy, and Snowy.



Figure 9: Weather Forecast Icons

This image displays the various weather forecast icons used on the display, corresponding to Sunny, Slightly Cloudy, Cloudy, Rainy, Heavy Rainy, and Snowy conditions.

5. Sunrise/Sunset and Tide Level

The display provides information on local sunrise and sunset times, as well as current tide levels (High, Medium, Low).



Figure 10: Sunrise/Sunset Display

This image shows the icon for sunrise and sunset times displayed on the weather station.



Figure 11: Tide Level Display

This image shows the icon for tide levels (High, Medium, Low) displayed on the weather station.

6. Multi-Channel Sensors

The KALEVOL Weather Station supports up to three wireless outdoor sensors (one included, additional sensors sold separately). This allows you to monitor temperature and humidity in multiple locations.

- To switch between sensor channels, press the "CHANNEL" button on the main unit.
- To add additional sensors, follow the pairing instructions in the "Setup" section for each new sensor. Ensure each sensor is set to a different channel (1, 2, or 3) using the switch inside its battery compartment.

Maintenance

- **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 the main unit (if used) and the wireless sensor when the low battery indicator appears on the display. Always replace all batteries at the same time with new ones.
- **Sensor Protection:** Ensure the outdoor sensor is protected from extreme weather conditions, such as heavy rain, snow, or direct prolonged sunlight, to prolong its lifespan and accuracy.

Troubleshooting

Problem	Possible Cause	Solution
No outdoor temperature/humidity reading.	Sensor out of range, low sensor batteries, interference, or sensor not paired.	1. Move sensor closer to the main unit. 2. Replace sensor batteries. 3. Re-pair the sensor (see Setup section). 4. Avoid placing near large metal objects or electronics that may cause interference.
Main unit display is dim or off (on battery power).	Low main unit batteries or backlight timeout.	1. Replace main unit batteries. 2. Connect the AC adapter for continuous backlight. 3. Press any button to activate backlight for 15 seconds.
Atomic clock not synchronizing.	Weak signal, interference, or incorrect time zone setting.	1. Place unit near a window, away from electronics. 2. Allow up to 24 hours for synchronization. 3. Manually set time and date if atomic signal is consistently unavailable.

Problem	Possible Cause	Solution
Inaccurate temperature/humidity readings.	Sensor exposed to direct sunlight/rain, or poor ventilation.	1. Relocate sensor to a shaded, well-ventilated area. 2. Ensure sensor is not near heat sources or vents.

Specifications

Feature	Detail
Model Number	3378-white
Brand	KALEVOL
Display Type	Color LCD
Main Unit Power	DC Adapter (included) or 2x AA Batteries (not included)
Wireless Sensor Power	2x AA Batteries (not included)
Connectivity Technology	433.92 MHz Wireless
Wireless Transmission Range	Up to 200ft / 60m (open air)
Temperature Accuracy	±1 °C
Product Dimensions (Main Unit)	8.86 x 2.76 x 5.91 inches (22.5 x 7 x 15 cm)
Item Weight	0.634 ounces (18 grams) - *Note: This weight seems unusually low for the main unit and sensor combined. It might refer to just one component or be an error in the source data. Users should refer to actual product for precise weight.*
Special Features	Large Color Display, Adjustable Brightness, Alarm, Atomic Clock, Sunrise/Sunset Time, Tide Level, Moon Phase, Air Pressure, USB Charging Port

Warranty and Support

KALEVOL is committed to providing high-quality products and excellent customer service. While specific warranty details are not provided in this manual, please retain your proof of purchase for any warranty claims.

For technical support, troubleshooting assistance, or warranty inquiries, please contact KALEVOL customer service through the retailer where you purchased the product or visit the official KALEVOL brand store online.

We actively listen to customer feedback to continuously improve and upgrade our products.

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