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KETOTEK E0160USW

KETOTEK Wireless Weather Station User Manual

Model: E0160USW

1. INTRODUCTION

The KETOTEK Wireless Weather Station provides comprehensive weather information and timekeeping functions for your home. It features a large 8.8-inch LCD display, an outdoor sensor for external temperature and humidity, and various meteorological data points including weather forecasts, moon phases, and barometric pressure trends. This manual will guide you through the setup, operation, and maintenance of your new weather station.



Figure 1.1: KETOTEK Wireless Weather Station main unit and outdoor sensor.

2. KEY FEATURES

- Large 8.8" VA LCD color display with wide viewing angle.
- Wireless outdoor sensor with up to 60 meters transmission range (supports up to 3 sensors, one included).
- Indoor/Outdoor temperature and humidity display with Max/Min records and trend indicators.
- WWVB Radio Controlled Clock (RCC) with automatic Daylight Saving Time (DST) function.
- Dual daily alarms with adjustable snooze function (5-60 minutes).
- Adjustable backlight brightness (4 levels) and night mode when powered by adapter.
- USB output port for charging external devices.
- Weather forecast for the next 12 hours with 6 distinct icons.
- Barometric pressure display with historical trend histogram.

- Moon phase and tides indicator.
- Comfort level and mold risk indicators.
- Sunrise and sunset times for selected cities.



Figure 2.1: Overview of the weather station's key features.

3. PACKAGE CONTENTS

Please check the package contents to ensure all items are present:

- 1 x KETOTEK Wireless Weather Station Main Unit
- 1 x Wireless Outdoor Sensor (white)
- 1 x Power Adapter
- 1 x Instruction Manual

4. SETUP

4.1 Powering the Main Unit

The main unit can be powered by the included power adapter or by batteries (not included). For continuous backlight and full functionality, it is recommended to use the power adapter.

- **Using Power Adapter:** Connect the power adapter to the DC IN port on the back of the main unit and plug it into a wall outlet.
- **Using Batteries:** Open the battery compartment on the back of the main unit and insert 3 x AAA batteries (not included), observing polarity. Note that the backlight will only illuminate for 10 seconds when powered by batteries to conserve energy.

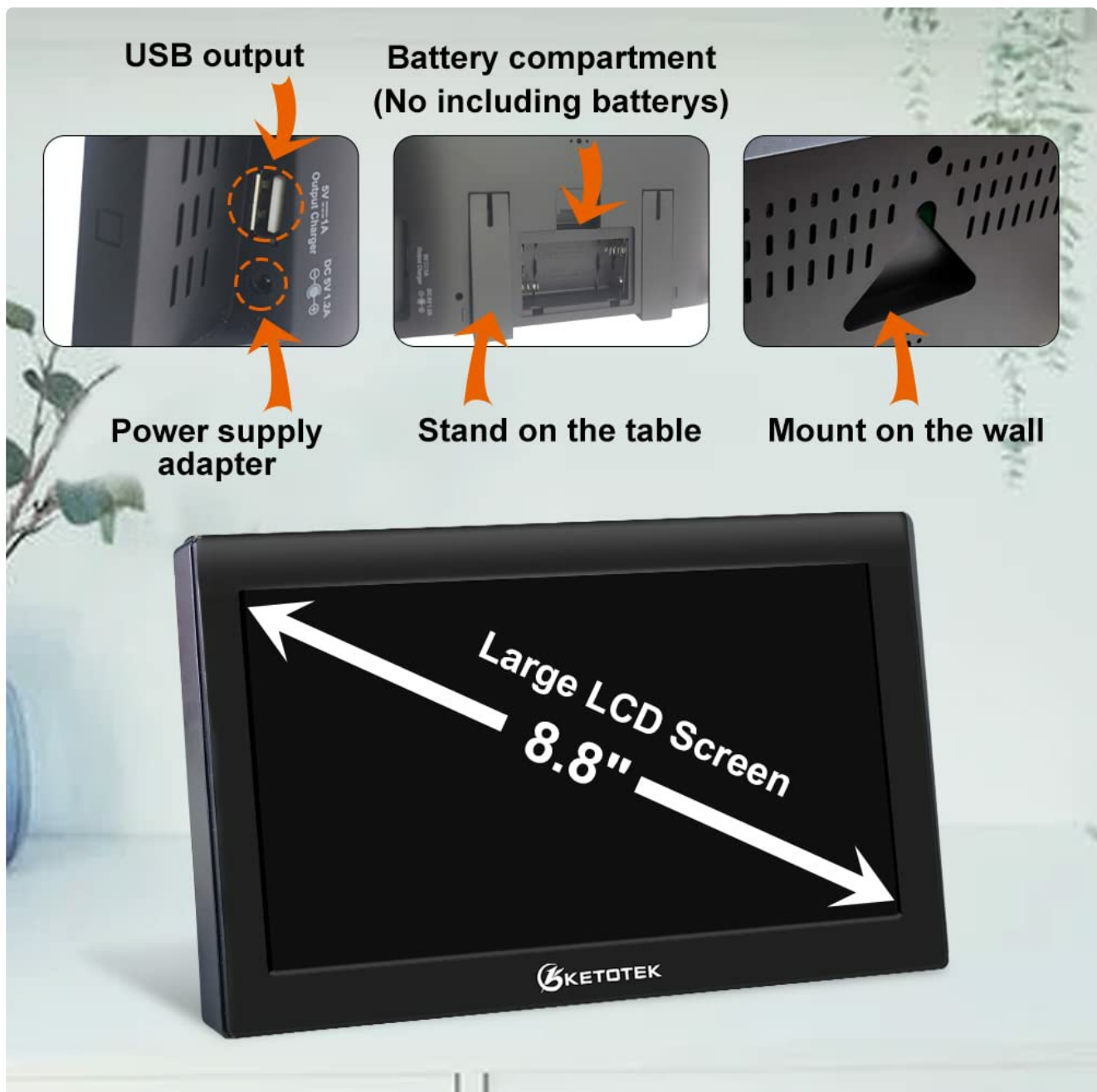


Figure 4.1: Power supply options and physical features of the main unit.

4.2 Outdoor Sensor Installation

The outdoor sensor transmits temperature and humidity data to the main unit. It is IPX4 splash-proof but not fully waterproof, so choose a protected location.

- Open the battery compartment of the outdoor sensor and insert 2 x AA batteries (not included), observing polarity.
- Select a channel (1, 2, or 3) using the 'CHANNEL 1/2/3' switch inside the battery compartment. The main unit supports up to three outdoor sensors.
- Place the sensor in a shaded, well-ventilated area away from direct sunlight and heat sources to ensure accurate readings. Avoid placing it directly exposed to rain or snow.
- Ensure the sensor is within 60 meters (200 feet) of the main unit, minimizing obstructions like thick walls or large metal objects.



Figure 4.2: Outdoor sensor battery installation and recommended placement.

4.3 WWVB Radio Control Time & DST

The weather station automatically synchronizes with the WWVB radio signal for accurate time and date. This typically occurs daily at 1:00, 2:00, or 3:00 AM.

- Upon initial power-up, the unit will automatically attempt to receive the WWVB signal. A tower icon will flash on the display during synchronization.
- If the signal is weak or unavailable, you can manually force synchronization by long-pressing the '▲' button.
- The unit also features an auto-DST (Daylight Saving Time) function, which adjusts the time automatically.



Figure 4.3: WWVB Radio Control Time function and synchronization.

4.4 Setting City for Sunrise/Sunset

The weather station can display sunrise and sunset times for various cities.

- Refer to the instruction manual's specific section for navigating city selection.
- Use the control buttons to browse and select your desired city from the pre-programmed list.



Figure 4.4: Sunrise and sunset times display for selected cities.

5. OPERATING INSTRUCTIONS

5.1 Display Overview

The 8.8-inch LCD display provides a wealth of information at a glance. Familiarize yourself with the different sections:

- **Indoor Section:** Displays indoor temperature, humidity, mold risk, and comfort level.
- **Outdoor Section:** Displays outdoor temperature, humidity, and wireless signal strength.
- **Forecast Section:** Shows weather forecast icons and temperature/humidity trends.
- **Time & Date Section:** Displays current time, date, day of the week, and moon phase.
- **Barometer Section:** Shows atmospheric pressure and historical pressure trends.
- **Sunrise/Sunset Section:** Displays sunrise and sunset times for the selected city.



Figure 5.1: Detailed overview of the main unit display and outdoor sensor components.

5.2 Backlight Adjustment

When powered by the adapter, the display backlight can be adjusted to four levels of brightness to suit different lighting conditions. A night mode is also available.

- Press the 'Backlight/Snooze' button (often a touch-sensitive area on top) to cycle through brightness levels.
- In battery-only mode, the backlight will turn off after 10 seconds to save power.

5 kinds of backlight brightness / Night mode

(After using the adapter)



Figure 5.2: Backlight brightness levels and night mode.

5.3 Alarm and Snooze Function

The weather station includes two daily alarms and a snooze function.

- **Setting Alarms:** Use the 'Alarm' button to enter alarm setting mode. Adjust the time and repeat cycle (e.g., Monday-Friday, Saturday-Sunday, or Monday-Sunday).
- **Snooze:** When an alarm sounds, press the 'Backlight/Snooze' button to activate the snooze function. The snooze duration can be set from 5 to 60 minutes.

2 Daily Alarm and Snooze Function



Alarm 1 8:00



Alarm 2 23:00



5-60 mins snooze
time

Repeat Cycle :

M-F Monday to Friday **S-S** Saturday to Sunday

M-F **S-S** Monday to Sunday



Figure 5.3: Daily alarm and snooze function.

5.4 Weather Forecast & Moon Phase

The weather station provides a forecast for the next 12 hours and displays the current moon phase.

- **Weather Forecast:** Icons represent Sunny, Slightly Cloudy, Cloudy, Rainy, Snowy, and Stormy conditions. The forecast is based on changes in atmospheric pressure.
- **Moon Phase:** The display shows one of 12 different moon phases, indicating the current lunar cycle.

Automatically synchronize the WWVB signal every day at 1:00/2:00/3:00.
Or long press the ▲ button to force it to receive the RCC radio signal.

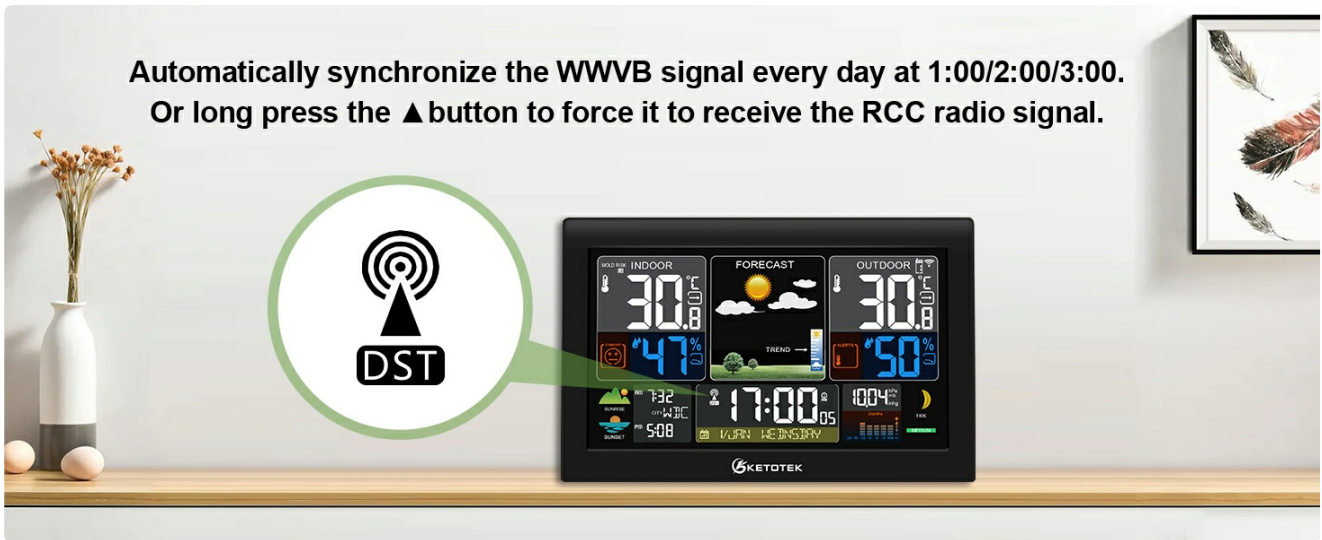


Figure 5.4: Weather forecast icons and moon phase display.

5.5 Mold Risk and Comfort Indicators

These indicators help you monitor indoor environmental conditions for health and comfort.

- **Mold Risk:** Displays HI (high), ME (medium), LO (low), or no risk (no arrow displayed) based on indoor temperature and humidity.
- **Comfort Level:** Indicates whether the indoor environment is Comfortable, Too Cold, or Too Hot.



Figure 5.5: Mold risk and comfort level indicators.

5.6 USB Charging Output

The main unit features a USB output port, allowing you to charge small electronic devices like smartphones or PCs when the weather station is powered by the AC adapter.

6. MAINTENANCE

- Clean the display and unit casing with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- If the unit will not be used for an extended period, remove the batteries from both the main unit and the outdoor sensor to prevent leakage.

- Replace batteries in the outdoor sensor when the low battery indicator appears on the main unit's display.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Outdoor sensor reading is inaccurate or not displayed.	Sensor out of range, interference, low battery, or improper placement.	Check sensor battery. Move sensor closer to the main unit. Ensure no large metal objects or thick walls are between units. Re-sync sensor by removing and reinserting batteries in both units. Ensure sensor is in a shaded, protected area.
WWVB time signal is weak or not received.	Interference, unit location, or time of day.	Move the main unit away from electronic devices that may cause interference. Try placing the unit near a window. Manually force synchronization by long-pressing the '▲' button. Signal reception is often better at night.
Display is dim or blank.	Not connected to power adapter, low batteries, or backlight setting.	Ensure the power adapter is securely connected and plugged in. Replace batteries if running on battery power. Adjust backlight brightness using the 'Backlight/Snooze' button.
Weather forecast seems incorrect.	Forecast is based on barometric pressure changes, not real-time satellite data.	Understand that the forecast is a prediction based on local atmospheric pressure trends and may not always match official weather reports. Allow time for the unit to establish a pressure trend.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions	1.3"D x 8.86"W x 5.63"H
Item Model Number	E0160USW
Manufacturer	KETOTEK
Power Source	AC/DC Adapter (included), Batteries (not included)
Connectivity Technology	RF (433 MHz)
Special Features	Thermometer, Alarm, Hygrometer, Clock, Barometer, Moon Phase
Color	Black (Main Unit), White (Sensor)
Country of Origin	China

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official KETOTEK website. Keep your purchase receipt as proof of purchase for any warranty claims.