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› Zivron Wireless Weather Station Model EM User Manual

Zivron EM

Zivron Wireless Weather Station Model EM User Manual

Model: EM

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Zivron Wireless Weather Station Model EM. Please read this manual thoroughly before using the device to ensure proper function and longevity.

PACKAGE CONTENTS

Verify that all items are present in the package:

- Zivron Wireless Weather Station Main Unit (Model EM)
- Wireless Remote Sensor (1 unit included, supports up to 3)
- AC/DC Power Adapter
- User Manual (this document)

Note: AA batteries for the main unit and remote sensor are not included.

PRODUCT OVERVIEW

The Zivron Wireless Weather Station features a 7.5-inch VA screen designed for wide viewing angles and clear display of environmental data. It provides indoor and outdoor temperature, humidity, date, time, weather forecast, and barometric pressure trends.

Main Unit Display Elements



Image: Detailed diagram of the Zivron Weather Station's main unit display, highlighting various indicators and their functions. This includes outdoor wireless channel, outdoor temperature and humidity, alert icons, sunrise/sunset times, selected city, month and date, time, week, tide level, historical pressure trends, moon phase, atmospheric pressure, mold risk, indoor humidity, comfort index, and weather forecast icons.

1. **A1:** Outdoor wireless channel and receiving icon
2. **A2:** Outdoor Temperature
3. **A3:** Outdoor Humidity
4. **A4:** Alert of Outdoor Temperature
5. **A5:** Sunrise time
6. **A6:** Selected city
7. **A7:** Sunset time
8. **A8:** Month and date
9. **A9:** Time
10. **A10:** Week
11. **A11:** Tide level
12. **A12:** Histogram of historical pressure trends
13. **A13:** Moon phase
14. **A14:** Atmospheric pressure
15. **A15:** Mold Risk of Indoor
16. **A16:** Indoor Humidity
17. **A17:** Comfort Index of Indoor
18. **A18:** Indoor Temperature
19. **A19:** Weather forecast

Main Unit Back and Side Elements



Image: Detailed diagram of the Zivron Weather Station's main unit, showing the back and side components. This includes hanging holes, USB charger output socket, power supply socket, support frame, and battery compartment.

1. **B1:** Hanging holes
2. **B2:** USB charger output socket
3. **B3:** Power supply socket
4. **B4:** Support frame
5. **B5:** Battery compartment

SETUP

Powering the Main Unit



Image: Illustration of the Zivron Weather Station's power options. It shows the main unit connected to an AC adapter for continuous power and brightness adjustment, and a separate image of the battery compartment requiring 2x AA batteries for portable use with a 15-second backlight.

The main unit can be powered in two ways:

- **AC/DC Power Adapter (Included):** Connect the adapter to the power supply socket (B3) on the back of the main unit and plug it into a wall outlet. When powered by the adapter, the display will remain constantly lit, and brightness can be adjusted (up to 5 levels).
- **2 x AA Batteries (Not Included):** Insert 2 AA batteries into the battery compartment (B5). When powered

solely by batteries, touching the top button will activate the screen backlight for 15 seconds to conserve power.

Important: For continuous display and full functionality, AC/DC power is recommended.

Installing the Remote Sensor

- Insert 2 AA batteries (not included) into the remote sensor.
- Place the remote sensor outdoors in a shaded, dry location, protected from direct sunlight and precipitation. Ensure it is within 328 feet (100 meters) of the main unit in open areas.
- The weather station supports up to 3 remote sensors. If using multiple sensors, ensure each is set to a different channel (CH1, CH2, CH3) using the switch inside the battery compartment.



Image: Depiction of the Zivron Weather Station's capability to connect with up to three remote sensors. The image shows the main unit and three remote sensors labeled CH1, CH2, and CH3, placed in various indoor settings like a nursery, kitchen, and bedroom, illustrating wireless transmission up to 328 feet in open areas.

Initial Synchronization

- After powering both the main unit and the remote sensor, the main unit will automatically search for the remote sensor signal. This may take a few minutes.
- Once connected, the outdoor temperature and humidity will appear on the main unit's display.
- The weather station will also attempt to synchronize with the WWVB atomic clock signal for automatic time and date setting (Auto DST & SYNC WWVB). This process can take several hours, especially in areas with weak signals. Place the unit near a window for better reception.

OPERATING INSTRUCTIONS

Displaying Weather Forecasts

The weather station calculates a weather forecast for approximately the next 12 hours based on barometric pressure trends. The forecast icons (A19) will update accordingly.



Image: The Zivron Weather Station display showing different weather forecast icons, including Sunny, Slightly Cloudy, Cloudy, Rainy, Stormy, and Snowy, which are determined by the unit's barometric pressure trend analysis.

Forecast icons include:

- Sunny
- Slightly Cloudy
- Cloudy
- Rainy
- Stormy
- Snowy

Adjusting Brightness (AC Powered)

When the main unit is powered by the AC adapter, you can adjust the display brightness through 5 levels using the dedicated button (refer to the product overview for button location, typically on the side or back).

Manual Settings

Refer to the specific buttons on the side or back of the unit (e.g., MODE, UP, DOWN, ALERT) to manually set time, date, alarm, temperature units (°C/°F), and other customizable alerts. Detailed instructions for each setting mode are typically found in the quick start guide included in the package.

Note: If the unit is set to synchronize with WWVB, manual time adjustments may be overwritten by the atomic clock signal.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the display and casing of both the main unit and remote sensor. Avoid abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries in both the main unit and remote sensor when the low battery indicator appears on the display. Ensure correct polarity.
- **Sensor Placement:** Periodically check the remote sensor's placement to ensure it remains protected from direct elements and maintains optimal signal strength.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No outdoor temperature/humidity reading.	Remote sensor out of range. Low batteries in remote sensor. Interference from other electronic devices. Incorrect channel setting on remote sensor.	Move sensor closer to the main unit. Replace batteries in the remote sensor. Relocate the main unit or sensor away from potential interference sources. Ensure the remote sensor's channel matches the selected channel on the main unit.
Outdoor temperature is inaccurate.	Sensor exposed to direct sunlight or heat source. Sensor placed near a vent or window that affects readings.	Relocate the sensor to a shaded, well-ventilated area. Ensure the sensor is not influenced by artificial heating or cooling. <i>Note: This model does not feature user calibration for temperature.</i>
Weather forecast does not change.	Stable barometric pressure. Unit not receiving accurate pressure data.	The forecast is based on pressure trends; if pressure is stable, the forecast will not change. Ensure the unit is placed in an area where it can accurately sense atmospheric pressure.
Atomic clock (WWVB) synchronization fails.	Weak signal due to location or interference. Initial sync can take several hours.	Place the main unit near a window, facing Colorado (where the WWVB transmitter is located) if possible. Avoid placing near large metal objects or electronics that cause interference. Allow sufficient time for synchronization, especially overnight.
Display is too dim or hard to read.	Unit is battery-powered (backlight only for 15 seconds). Brightness setting is too low (AC powered). Viewing angle is incorrect.	Use the AC adapter for continuous, adjustable brightness. Adjust brightness levels using the dedicated button when AC powered. Adjust the viewing angle of the main unit for optimal clarity.

SPECIFICATIONS

Feature	Detail
Model Number	EM
Display Type	7.5" VA Screen
Power Source (Main Unit)	AC/DC Power Adapter or 2 x AA Batteries (not included)
Power Source (Remote Sensor)	2 x AA Batteries (not included)
Wireless Range	Up to 328 feet (100 meters) in open areas
Supported Remote Sensors	Up to 3

Feature	Detail
Special Features	Adjustable Brightness (AC powered), Alarm, Atomic Clock (WWVB), Customizable Alerts, Large Display, Weather Forecast, Moon Phase, Tide Level, Barometric Pressure History
Dimensions (Main Unit)	20.32 x 12.95 x 2.79 cm (8 x 5.1 x 1.1 inches)
Weight (Main Unit)	549 g
Color	White

WARRANTY AND SUPPORT

Zivron is committed to providing reliable products and customer satisfaction.

- **Customer Support:** 24/7 support is available for any inquiries or assistance.
- **Money Back Guarantee:** Enjoy a 30-day money-back guarantee from the date of purchase.
- **Warranty:** A 24-month free replacement or repair warranty covers manufacturing defects.

For support, please refer to the contact information provided with your product packaging or visit the official Zivron website.

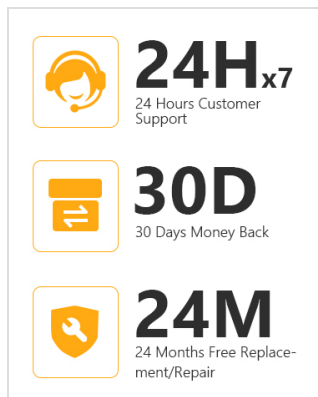


Image: Graphic illustrating Zivron's customer support offerings, including 24-hour customer support, a 30-day money-back policy, and a 24-month free replacement or repair warranty.