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SZFZMZ EM777C

Wireless Rain Gauge Instruction Manual

Model: EM777C

1. PRODUCT OVERVIEW

The SZFZMZ Wireless Rain Gauge (Model EM777C) is a comprehensive weather monitoring device designed for outdoor use. It accurately measures rainfall, provides real-time indoor and outdoor temperature readings, and includes a backlight for easy viewing. This self-emptying rain collector system also features historical rainfall data, a dual alarm clock, and a calendar function, making it a versatile tool for your yard and garden.



2. KEY FEATURES

- **5-in-1 Functionality:** Monitors rainfall, displays historical rainfall data, provides real-time indoor and outdoor temperatures, and includes WWVB radio-controlled time functions.
- **Rainfall Monitoring:** Accurate measurement of daily, weekly, and monthly rainfall with a self-emptying collector.
- **Temperature Display:** Shows current indoor and outdoor temperatures in Celsius or Fahrenheit.
- **Backlight:** Ensures clear visibility of the display in low-light conditions.
- **Historical Data:** View past rainfall data through a histogram on the display.
- **Additional Functions:** Features a dual alarm clock and calendar for daily utility.

3. PACKAGE CONTENTS

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

- 1 x Display Unit (Indoor Console)
- 1 x Rain Collector Sensor (Outdoor Unit)
- 1 x Mounting Bracket for Rain Collector
- Screws for Mounting
- User Manual (this document)
- *Note: Batteries are typically not included and must be purchased separately. Refer to the "Battery Installation" section for required battery types.*

4. SETUP AND INSTALLATION

4.1 Battery Installation

Display Unit:

1. Open the battery compartment cover on the back of the display unit.
2. Insert the required batteries (e.g., 3 x AAA, not included) according to the polarity markings (+/-).
3. Close the battery compartment cover.

Rain Collector Sensor (Outdoor Unit):

1. Locate the battery compartment on the outdoor rain collector. This may require unscrewing a cover.
2. Insert the required batteries (e.g., 2 x AA, not included) according to the polarity markings.
3. Securely close the battery compartment to ensure water resistance.

4.2 Sensor Placement

Proper placement of the rain collector sensor is crucial for accurate readings:

- Choose an open area where the sensor will not be obstructed by trees, buildings, or other structures that could block rainfall or cause runoff.
- Ensure the sensor is level to guarantee accurate measurement. Use a spirit level if necessary.
- Mount the sensor securely using the provided mounting bracket and screws. It should be high enough to avoid splashing from the ground but accessible for maintenance.
- Place the display unit indoors, away from direct sunlight and heat sources, and within the wireless range of the

outdoor sensor (typically up to 100 meters in open air).

4.3 Initial Setup and Pairing

After battery installation, the display unit will attempt to connect with the outdoor sensor. This may take a few minutes.

- Ensure both units are powered on and within range.
- The display unit should automatically detect the outdoor sensor and begin displaying outdoor temperature and rainfall data.
- If pairing fails, try resetting both units (remove and reinsert batteries) and place them closer together during the initial pairing process.

Time and Date Setting:

The unit features WWVB radio-controlled time. Once connected, it will attempt to synchronize the time automatically. If manual adjustment is needed:

1. Press and hold the "MODE/SET" button to enter time setting mode.
2. Use the "UP/HIST" and "DOWN/MEM" buttons to adjust values.
3. Press "MODE/SET" again to confirm and move to the next setting (e.g., 12/24 hour format, time zone, date).

5. OPERATING INSTRUCTIONS

5.1 Display Overview

The display unit provides a clear overview of all monitored data:

- **Time and Date:** Located at the top, showing current time, day, and month.
- **Rainfall Data:** Displays current rainfall (e.g., "35.9 mm" as seen in the image) and a "Historical histogram" showing rainfall over different periods (Day, Week, Month).
- **Indoor Temperature:** Labeled "IN", showing the temperature measured by the display unit itself (e.g., "23.4°C").
- **Outdoor Temperature:** Labeled "OUT", showing the temperature from the remote sensor (e.g., "30.9°C").
- **Signal Strength:** An icon indicating the wireless connection strength between the display unit and the outdoor sensor.
- **Alert Indicators:** Icons for alarms or rain alerts.

5.2 Button Functions

Button	Function (Short Press)	Function (Press and Hold)
MODE/SET	Toggle display modes (e.g., time, alarm).	Enter setting mode for time, date, alarm.
UP/HIST	Increase value in setting mode; View historical rainfall data.	Activate/deactivate certain functions (refer to specific modes).
DOWN/MEM	Decrease value in setting mode; View minimum/maximum temperature records.	Clear minimum/maximum records.
RAIN ALERT	Activate/deactivate rain alarm.	Set rain alarm threshold.

5.3 Viewing Historical Rainfall Data

To view historical rainfall data, repeatedly press the "UP/HIST" button. The display will cycle through different time periods (e.g., daily, weekly, monthly) and show the corresponding rainfall amounts and the histogram.

5.4 Setting Rain Alert

The rain alert function notifies you when a certain amount of rainfall has been collected.

1. Press and hold the "RAIN ALERT" button until the alert threshold starts flashing.
2. Use "UP/HIST" or "DOWN/MEM" to adjust the desired rainfall threshold.
3. Press "RAIN ALERT" again to confirm the setting.
4. A short press of "RAIN ALERT" will toggle the alarm on or off.

6. MAINTENANCE

- **Cleaning the Rain Collector:** Periodically check the rain collector for debris such as leaves, twigs, or insects that could obstruct the tipping bucket mechanism. Clean with a soft, damp cloth. Do not use abrasive cleaners.
- **Battery Replacement:** Replace batteries in both the display unit and the outdoor sensor when the low battery indicator appears on the display. Use fresh batteries of the specified type.
- **Winter Care:** While the product is described as "Freeze Proof Rainfall Measurer", it is generally recommended to bring the outdoor sensor indoors during extreme freezing conditions to prolong its lifespan and prevent potential damage from ice buildup.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No outdoor temperature/rainfall data on display.	No wireless connection; Batteries low/dead; Sensor too far or obstructed.	Check batteries in both units. Move display unit closer to sensor. Remove obstructions. Re-pair units by resetting both.
Inaccurate rainfall readings.	Rain collector not level; Debris in collector; Sensor obstructed.	Ensure collector is level. Clean out any debris. Relocate sensor to an open area.
Display is blank or dim.	Low or dead batteries in display unit.	Replace batteries in the display unit.
Time is incorrect.	WWVB signal weak or unavailable; Manual setting needed.	Relocate display unit near a window for better signal. Manually set time if automatic synchronization fails.

8. SPECIFICATIONS

Attribute	Detail
Model Number	EM777C
Brand	SZFZMZ
Product Dimensions	10.01 x 2.54 x 11 cm (Display Unit); 439.98 g (Total Weight)
Power Source (Display)	e.g., 3 x AAA Batteries (not included)
Power Source (Sensor)	e.g., 2 x AA Batteries (not included)
Wireless Range	Up to 100 meters (330 feet) in open air

Attribute	Detail
Temperature Range (Indoor)	Specific range not provided, typical indoor range.
Temperature Range (Outdoor)	Specific range not provided, typical outdoor range.
Rainfall Measurement Unit	Millimeters (mm) or Inches (in)

9. WARRANTY AND SUPPORT

This product is manufactured by SZFZMZ. For warranty information, technical support, or service inquiries, please refer to the contact information provided on the product packaging or the official SZFZMZ website. Keep your purchase receipt as proof of purchase for warranty claims.

Note: Warranty terms and conditions may vary by region and retailer.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

How do you turn off the rain alarms and events on the SZFZMZ EM777C Wireless Rain Gauge?

To turn off the rain alarms and other alerts on your SZFZMZ EM777C Wireless Rain Gauge, follow these steps based on the manual's button functions: Rain Alarms: Perform a short press of the RAIN ALERT...

[Read full answer](#)

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