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SZFZMZ EM3392

Digital Rain Gauge User Manual

Model: EM3392

Brand: SZFZMZ

Introduction

This user manual provides detailed instructions for the setup, operation, and maintenance of your SZFZMZ Digital Rain Gauge. This wireless system allows you to monitor rainfall, indoor and outdoor temperatures, and track historical data with ease. Please read this manual thoroughly before using the device to ensure optimal performance and longevity.



Image: The SZFZMZ Digital Rain Gauge system, showing the indoor display unit in the foreground and the outdoor self-emptying rain collector in the background.

Package Contents

Please verify that all components are present and in good condition:

- 1 x Digital Display Console (Indoor Unit)
- 1 x Wireless Rain Collector Sensor (Outdoor Unit)
- 1 x User Manual (this document)
- Mounting hardware (screws, anchors) - *Note: Batteries are not included.*



Image: An illustrative diagram highlighting the main features of the rain gauge system, such as calendar, language options, 24-hour rain alert, indoor/outdoor temperature display, two daily alarms, 200ft transmission range, low battery indicator, and rainfall readings.

Product Features

- **Digital Display Console:** Shows date, time, indoor/outdoor temperature, and rainfall data.
- **Self-Emptying Collector:** The outdoor sensor automatically empties collected rainwater, ensuring continuous and accurate measurements without manual intervention.
- **Wireless Transmission:** Data is wirelessly sent from the outdoor sensor to the indoor display, with a transmission range of up to 200 feet (60 meters).
- **Rainfall History:** Tracks rainfall for various periods: now, 1 hour, 24 hours, today, 7 days, month, year, and total precipitation.
- **24-Hour Rainfall Alert:** Customizable alarm to notify you when a set amount of rain has fallen.

- **Temperature Monitoring:** Displays both indoor and outdoor temperatures in Celsius or Fahrenheit.
- **Dual Daily Alarms:** Two programmable daily alarms.
- **Multi-language Support:** 7 user-selectable languages for the display.

Setup

1. Battery Installation

The indoor display requires 2 x AAA batteries, and the outdoor sensor requires 2 x AA batteries (not included).

1. Open the battery compartment on the back of both the indoor display and the outdoor sensor.
2. Insert batteries according to the polarity indicators (+/-).
3. Close the battery compartments securely.



Image: An exploded view of the outdoor sensor, illustrating the location of the battery compartment and other components for assembly and maintenance.

2. Sensor Placement (Outdoor Unit)

For accurate rainfall readings, proper placement of the outdoor sensor is crucial.

- Place the sensor 1-2 meters (3-6 feet) above the ground.
- Ensure the sensor is in an open area where rain can fall freely from all sides, away from obstructions like trees, buildings, or overhangs.
- The transmitter (433.92MHz RF transmitting frequency) should have a clear line of sight or minimal obstructions to the indoor display for optimal wireless communication.



Image: The wireless outdoor rain sensor, highlighting its large opening (29.8 square inches) designed to enhance rainfall measurement accuracy.



Image: An illustration demonstrating the wireless transmission range of up to 200 feet (60 meters) between the outdoor rain gauge sensor and the indoor display unit, showing the sensor on a deck railing and the display indoors.

3. Display Unit Placement (Indoor Unit)

- Place the indoor display unit in a convenient location within the wireless range of the outdoor sensor.
- Avoid placing it near large metal objects or electronic devices that might interfere with the wireless signal.
- The display unit can be placed on a flat surface using its support frame or mounted on a wall using the hanging hole.



Image: A detailed view of the indoor display unit, illustrating the various indicators on the screen (e.g., rain alert icon, rainfall cylinder graph, time, temperature) and the physical features on the back (hanging hole, battery compartment, support frame).

Operation

1. Initial Synchronization

After installing batteries in both units, the indoor display will automatically attempt to connect with the outdoor sensor. This may take a few minutes. Once connected, the outdoor temperature and rainfall data will appear on the display.

2. Setting Time, Date, and Language

To set the time, date, and language:

1. Press and hold the "MODE/SET" button to enter setup mode.
2. Use the "HIST/UP" and "DOWN/ALERT" buttons to adjust values.
3. Press "MODE/SET" again to confirm and move to the next setting.
4. Settings include: 12-hour or 24-hour mode, current time (hour and minute), Month/Date or Date/Month mode, current year, current month and date, and language (7 options).

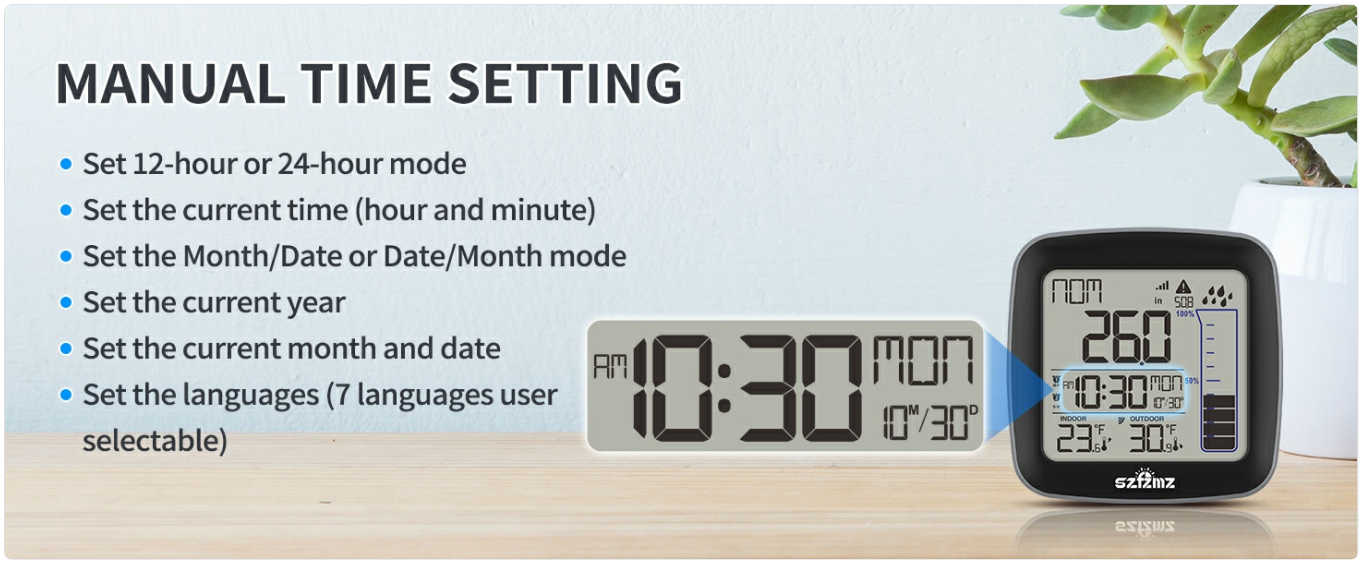


Image: A visual guide to manually setting the time, date, and language on the indoor display, detailing the various configurable options.

3. Temperature and Rainfall Units

You can switch between Celsius (°C) and Fahrenheit (°F) for temperature, and millimeters (mm) and inches (in) for rainfall.

- To change temperature units: Briefly press the button labeled for temperature unit selection (refer to display diagram).
- To change rainfall units: Briefly press the button labeled for rainfall unit selection (refer to display diagram).



Image: The indoor display showing how temperature can be alternatively displayed in Celsius or Fahrenheit, and rainfall in millimeters or inches.

4. Daily Alarms

The unit supports two daily alarms.

- Briefly press the "DOWN" button to activate or deactivate alarms:
  - Press 1x: Alarm 1 activated.
  - Press 2x: Alarm 2 activated.
  - Press 3x: Both alarms activated.
  - Press 4x: Both alarms deactivated.



Image: A visual guide explaining how to activate or deactivate the two daily alarms by repeatedly pressing the "DOWN" button on the display unit.

5. 24-Hour Rainfall Alert

Set a customizable rainfall alert:

- Access the alert setting (refer to manual for specific button sequence, typically involving "ALERT" or "MODE/SET" in combination).
- Choose the desired rainfall increment (e.g., 0.1-inch increments) to trigger the alarm.
- The display will show an "ALERT" icon and an audible beep will sound when the set rainfall total is reached.



Image: The indoor display showing the 24-hour rainfall alert feature, indicating how a customizable alarm notifies the user when a set rainfall total is reached.

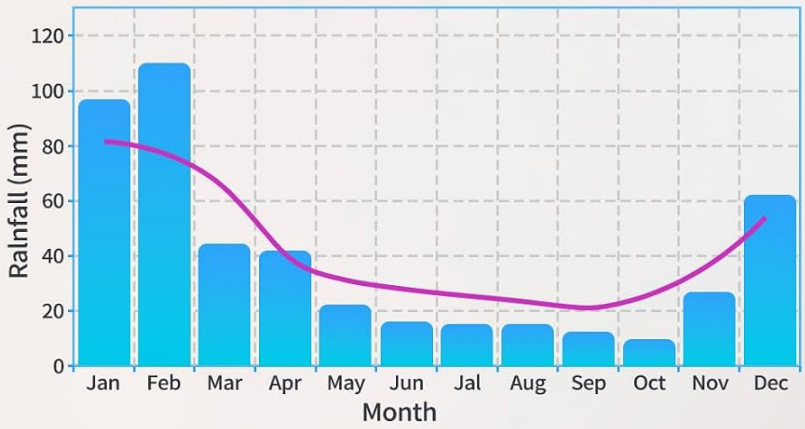
6. Viewing Rainfall History

The display stores rainfall data for various periods.

- Press the "HIST/UP" button to cycle through historical data: Now, 1 Hour, 24 Hours, Today, 7 Days, Month, Year, and Total precipitation.
- The rainfall history is viewable by the month for the past 12 months.

RAINFALL HISTORY BY THE MONTH

Rainfall History is viewable by the month for the past 12 months.



Press the "HIST/UP" button to view previous month's rainfall totals.



Image: The indoor display showing the rainfall history feature, with a graph illustrating monthly precipitation trends and an indication of how to access past data using the "HIST/UP" button.

STAY INFORMED ABOUT PRECIPITATION TRENDS

Keep track of rainfall history with our rain gauge. Displaying data for "Now", "1 Hour", "24 Hours", "Today", "7 Days", "Month", "Year", and "Total", you'll have a clear picture of precipitation trends in your area.

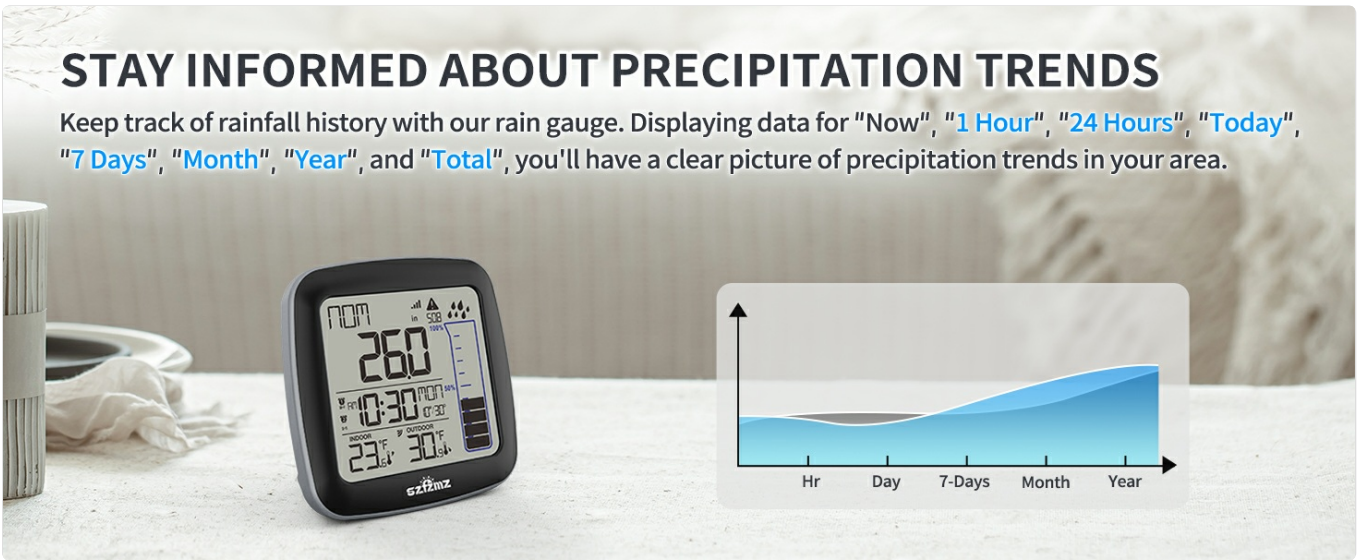


Image: A graph illustrating how the rain gauge tracks precipitation trends over various timeframes, including hourly, daily, 7-day, monthly, and yearly totals.

7. Rainfall Cylinder Graph

The indoor display features a rain cylinder graph with 10 segments that visually represent the rainfall total.

- **Up to 25.4 mm (1 inch) of rainfall:**Each segment indicates 2.54 mm (0.1 inch) of rainfall.
- **Over 1 inch of rainfall:** Each segment indicates 5.08 mm (0.2 inches) of rainfall.
- The cylinder graph will read up to 1270 mm (50 inches) of rain. Over 1270 mm (50 inches), the graph will show full.



Image: A diagram explaining the rainfall cylinder graph on the indoor display, detailing how each segment represents rainfall amounts (0.1 inch or 0.2 inch) based on the total accumulation, up to a maximum of 50 inches.

Maintenance

1. Cleaning

- Periodically clean the outdoor rain collector to ensure no debris (leaves, dirt, insects) obstructs the tipping bucket mechanism. A soft, damp cloth can be used.
- Clean the indoor display with a soft, dry cloth. Avoid abrasive cleaners.

2. Battery Replacement

- When the low battery indicator appears on the display, replace the batteries in both the indoor and outdoor units promptly.
- Always replace all batteries with new ones of the same type (2 x AAA for indoor, 2 x AA for outdoor).
- Ensure correct polarity during installation.

Troubleshooting

Problem	Possible Cause	Solution
No display on indoor unit.	Batteries are dead or incorrectly installed.	Replace batteries, ensuring correct polarity.
No outdoor data (temperature/rainfall).	• Outdoor sensor batteries are dead. • Units are out of range or signal interference. • Sensor is obstructed.	• Replace outdoor sensor batteries. • Move units closer or remove obstructions. • Ensure sensor is in an open area.
Inaccurate rainfall readings.	• Debris in the tipping bucket. • Sensor not level.	• Clean the tipping bucket mechanism. • Ensure the sensor is mounted on a level surface.
Display shows "---" or "Err".	Loss of signal or sensor error.	• Check batteries in both units. • Restart both units by removing and reinserting batteries. • Ensure units are within range and free from interference.

Specifications

Feature	Detail
Model Number	EM3392
Product Dimensions (Indoor Unit)	3.5 x 1 x 3.49 inches
Item Weight	15.2 ounces
Power Source (Indoor)	2 x AAA batteries (not included)
Power Source (Outdoor)	2 x AA batteries (not included)
Wireless Frequency	433.92MHz RF
Transmission Range	Up to 200 feet (60 meters) in open air
Rainfall Measurement	Inches or Millimeters
Temperature Measurement	Celsius or Fahrenheit

Warranty and Support

For warranty information and technical support, please refer to the contact details provided with your product packaging or visit the official SZFZMZ website. Keep your purchase receipt as proof of purchase for any warranty claims.
For additional assistance, you may contact SZFZMZ customer service through their Amazon store page:SZFZMZ Store on Amazon.

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