

1. Product Overview

The Geevon Digital Rain Gauge is a wireless outdoor weather instrument designed to measure and record rainfall. It consists of two main components: an outdoor self-emptying rain collector and an indoor display unit.



The system provides accurate rainfall data, historical records, and programmable alerts. It is suitable for monitoring precipitation in gardens, farms, and other outdoor areas.

2. Key Features

2.1 Programmable Rainfall Alerts

The device can be programmed to sound an alarm when rainfall reaches a specific level, providing warnings for potential flooding or irrigation needs.



2.2 High Accuracy Measurement

- Measurement resolution: 1mm or 0.04 inches
- Measurement error: $\pm 7\%$

2.3 Wireless Connectivity

The outdoor collector transmits data wirelessly to the indoor display unit.

- Transmission range: Up to 150 feet (50 meters)
- Frequency: 433.92MHz (ISM band)



2.4 Self-Emptying Rain Collector

The outdoor unit features an automatic tipping bucket mechanism that self-empties after each measurement cycle, eliminating the need for manual maintenance.



2.5 Data Display and Storage

- Current rainfall display
- Historical rainfall data storage
- Current date and time display
- White backlight for nighttime viewing (activates for 10 seconds)

2.6 Power Management

- Low battery warning icon on display
- Separate batteries for operation and historical data storage



3. Technical Specifications

Power Source	Battery Powered
Batteries Required	1 CR2032 battery (included) for main operation Additional CR2032 for historical data backup
Connectivity Technology	Wireless (433.92MHz)
Transmission Range	Up to 150 feet (50 meters)
Measurement Resolution	1mm / 0.04 inches
Accuracy	±7%
Display Type	LCD with white backlight
Material	Plastic (polished finish)
Dimensions (Display Unit)	1"D x 4.5"W x 3.8"H
Operating Temperature Range	Up to 140°F (60°C) Note: Do not expose to freezing temperatures
Model Number	248721

4. Installation and Setup

4.1 Package Contents

- Outdoor rain collector unit
- Indoor display unit
- CR2032 batteries (2x)
- Installation tools
- Instruction manual

4.2 Battery Installation

1. Open the battery compartment on both the outdoor collector and indoor display unit.
2. Insert the provided CR2032 batteries, observing correct polarity.
3. The backup battery in the display unit preserves historical data for approximately two years.

4.3 Outdoor Collector Placement

- Place the collector in an open area away from obstructions like trees or buildings.
- Ensure the collector is level for accurate measurements.
- Mount securely to prevent tipping in windy conditions (diameter approximately 6 inches).
- Keep away from sprinklers or other water sources that could cause false readings.
- **Important:** Bring the collector indoors if temperatures are expected to drop below freezing.

4.4 Indoor Display Placement

- Place within 150 feet of the outdoor collector.
- Avoid placing near large metal objects or electronic devices that may interfere with wireless signal.
- The display can be placed on a flat surface or mounted using the provided options.

4.5 Pairing Units

1. With batteries installed, the units should automatically pair.
2. Allow several minutes for initial connection.
3. If no data appears, check battery installation and reduce distance between units.

5. Operation Guide

5.1 Display Overview

The LCD display shows:

- Current rainfall amount (in inches or millimeters)
- Historical rainfall data
- Current date and time
- Low battery indicator (when applicable)
- Alert status indicators



Battery cover (with 1xCR2032 battery) for storing records

Battery cover (2xAAA not incl)

1. 1xCR2032 button battery, used as product storage record power, service life of two years, the end of the life of the historical records will also be lost.
2. Normal batteries 2xAAA are used for product operation, not for historical data recording, even if the power disappears, the historical data will not be affected.

5.2 Button Functions

- **Light Button:** Press to activate white backlight for 10 seconds of nighttime viewing.
- **Mode/Set Buttons:** Used to navigate menus, set alerts, and configure settings (refer to included quick start guide for specific button layout).

5.3 Setting Rainfall Alerts

1. Press the Mode/Set button to enter settings menu.
2. Navigate to "Alert Setting" option.
3. Set desired rainfall threshold using the adjustment buttons.
4. Confirm setting and exit menu.
5. The device will sound an alarm when rainfall exceeds the set threshold.

5.4 Viewing Historical Data

1. Press the Mode button to cycle through display modes.
2. Historical data for previous rainfall periods will be displayed.
3. Data is preserved by the backup battery for approximately two years.

5.5 Units of Measurement

The device can display rainfall in either inches or millimeters. Use the settings menu to select preferred units.

6. Maintenance and Troubleshooting

6.1 Regular Maintenance

- **Outdoor Collector:** Periodically check for debris in the funnel. Clean with soft brush if necessary.
- **Battery Check:** Monitor the low battery indicator on the display. Replace batteries when indicated.
- **Winter Storage:** Bring the outdoor collector indoors during freezing temperatures to prevent damage.

6.2 Battery Replacement

Operational Battery (Display Unit):

- Expected life: 6-12 months depending on usage
- Replace when low battery icon appears

Historical Data Backup Battery:

- Expected life: Approximately 2 years
- Preserves rainfall history during main battery changes
- Replace proactively every 2 years to maintain data

6.3 Troubleshooting

Issue	Possible Solution
No display or blank screen	Check battery installation and replace if necessary
No rainfall data received	<ol style="list-style-type: none"> 1. Verify units are within 150ft range 2. Check outdoor collector battery 3. Ensure no obstructions between units
Inaccurate readings	<ol style="list-style-type: none"> 1. Ensure collector is level 2. Clean funnel of debris 3. Check for wind interference (may cause false readings in high winds)
Alerts not working	<ol style="list-style-type: none"> 1. Verify alert threshold is set 2. Check battery level 3. Ensure device is not in mute/silent mode
Historical data lost	Backup battery may need replacement. Data cannot be recovered once lost.



7. Safety Information

- Keep batteries away from children and pets.
- Do not expose the outdoor collector to temperatures below freezing.
- Use only CR2032 batteries as specified.
- Do not attempt to disassemble the device beyond battery compartment access.

- Keep away from open flames and heat sources.
- The device is for outdoor weather monitoring only, not for critical flood warning systems.

8. Technical Information

- **Wireless Protocol:** 433.92MHz ISM band
- **Data Transmission:** The device transmits cumulative rainfall data only (value increases with rainfall)
- **Compatibility:** Can be integrated with home automation systems using RTL-SDR receivers and rtl_433 software (protocol 242)
- **ASIN:** B0DD6VKWKQ

Warning

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