YZDTECH Rain Gauge-3551E

YZDTECH Wireless Digital Rain Gauge with Thermometer Instruction Manual

Model: Rain Gauge-3551E

Introduction

This manual provides detailed instructions for the YZDTECH Wireless Digital Rain Gauge with Thermometer, Model Rain Gauge-3551E. This device offers accurate rainfall measurement, indoor and outdoor temperature display, and a WWVB radio-controlled clock with alarm functions. Designed for user convenience, it features a self-emptying rain collector and a clear digital display with a blue backlight for easy nighttime viewing. Please read this manual thoroughly before use to ensure proper setup and operation.



Figure 1: Multifunctional Display Unit and Rain Collector. This image illustrates the main display unit and the outdoor rain collector, highlighting the various functions such as indoor/outdoor temperature, WWVB & DST, alarm clock, time & calendar, rainfall, backlight, and accurate measurement.

Setup Instructions

1. **Unpack Components:** Carefully remove all components from the packaging. Ensure you have the indoor display unit and the outdoor rain collector sensor.
2. **Install Batteries:**
   - Open the battery compartment on the back of the indoor display unit and insert the required batteries (typically AA or AAA, refer to the battery compartment label).
   - Open the battery compartment on the outdoor rain collector sensor and insert the required batteries.

   Note: Ensure fresh, high-quality batteries are used for optimal performance and reliable syncing.
3. **Automatic Connection:** Once batteries are installed in both units, they will automatically attempt to connect. The indoor display unit should begin showing rainfall data and indoor/outdoor temperatures after a successful connection.

4. **Outdoor Sensor Placement:**
    - Place the outdoor rain collector sensor in an open area, away from obstructions like trees, buildings, or overhangs that could block rainfall or affect temperature readings.
    - Ensure the sensor is level to guarantee accurate rainfall measurement.
    - The transmission range is up to 330 feet in open areas, or approximately 100 feet under most conditions. Position the outdoor sensor within this range of the indoor display unit.



Figure 2: Wireless Signal Transmission. This image demonstrates the wireless connection between the indoor display unit and the outdoor rain collector, indicating a transmission range of up to 330ft in open areas and 100ft under most conditions.



Figure 3: Convenience of Indoor Reading. This image contrasts an old-fashioned rain gauge, which requires outdoor viewing, with the YZDTECH digital rain gauge, allowing easy indoor reading without going outside.

Operating Instructions

Rainfall Monitoring

The display console provides 8 different rainfall measurements:

- **Now:** Current rainfall.
- **1 Hour:** Rainfall over the last hour.
- **24 Hours:** Rainfall over the last 24 hours.
- **Today:** Rainfall since midnight.
- **7 Days:** Rainfall over the last 7 days.
- **Month:** Rainfall for the current month.
- **Year:** Rainfall for the current year.

- **Total:** Cumulative rainfall since the last reset.

Use the designated buttons on the display unit (refer to the unit's button labels) to cycle through these measurements. The display also includes a cylindrical rainfall graph for visual representation of precipitation levels.

Temperature Display

The indoor display unit shows both the current indoor and outdoor temperatures. These readings are updated regularly by the outdoor sensor.

WWVB Radio Control Time Function

The digital atomic clock automatically synchronizes with the WWVB signal, ensuring accurate time display and eliminating the need for manual time adjustments. It also supports automatic Daylight Saving Time (DST) adjustments.



Figure 4: Atomic Clock with WWVB & Auto DST. This image illustrates how the digital atomic clock automatically syncs to the WWVB signal for accurate time, including automatic adjustments for Daylight Saving Time.

Dual Alarm Clock with Snooze

The device includes a dual alarm clock function. To set the alarm, refer to the specific button instructions on your device (typically involving 'MODE' and 'SET' buttons). The intelligent snooze function can be activated by pressing the 'SNOOZE/LIGHT' button when the alarm sounds, providing an extra 5-minute nap. Pressing any other button will stop the alarm.



Figure 5: Dual Digital Alarm Clock. This image shows the display unit in a bedroom setting, demonstrating the alarm clock function and how pressing the 'SNZ/LIGHT' button provides an extra 5-minute snooze.

Blue Backlight Function

For easy nighttime viewing, press the 'SNOOZE/LIGHT' button located above the screen of the digital rain gauge. This will activate a soft, blue backlight which will remain on for 15 seconds, allowing you to check temperature, time, and rainfall data in low-light conditions.

Maintenance

- **Self-Emptying Rain Collector:** The outdoor rain collector is designed to be self-emptying, minimizing the need for manual maintenance. However, periodically check the collector for any debris (leaves, insects) that might obstruct the

tipping bucket mechanism and affect accuracy.

- **Battery Replacement:** Replace batteries in both the indoor display unit and the outdoor sensor when the low battery indicator appears on the display, or if the unit's performance degrades. Always replace with fresh, high-quality batteries.
- **Cleaning:** Wipe the indoor display unit with a soft, dry cloth. For the outdoor sensor, use a damp cloth to remove dirt or grime. Avoid using abrasive cleaners or solvents.

Troubleshooting

Problem	Possible Cause	Solution
No display on indoor unit / Unit not powering on.	Dead or incorrectly installed batteries.	Check battery orientation. Replace with fresh, high-quality batteries.
No outdoor temperature or rainfall data displayed.	Outdoor sensor not connected or out of range; low battery in outdoor sensor.	Ensure outdoor sensor has fresh batteries. Move outdoor sensor closer to the indoor unit. Remove any large obstructions between units. Re-sync units if necessary (refer to specific device instructions for re-sync procedure).
Inaccurate rainfall readings.	Outdoor sensor not level; debris in collector; obstructions above sensor.	Ensure the outdoor sensor is mounted on a level surface. Clear any debris from the tipping bucket mechanism. Relocate the sensor to an open area free from overhead obstructions.
Time not synchronizing (WWVB).	Interference; unit too far from WWVB signal source; incorrect time zone setting.	Place the indoor unit near a window, away from electronic devices that may cause interference. Ensure the correct time zone is selected on the unit. Allow time for synchronization (can take several hours).

Specifications

- **Model Number:** Rain Gauge-3551E
- **Package Dimensions:** 7.64 x 5.63 x 5.59 inches
- **Item Weight:** 1.23 pounds
- **Functions:** WWVB Clock, Calendar, Dual Alarm with Snooze, Rainfall data (Now, 1hr, 24hrs, Today, 7 days, Month, Year, Total), Indoor/Outdoor Temperature Display, Blue Backlight.
- **Manufacturer:** YZDTECH



Figure 6: Key Features of the Digital Wireless Rain Gauge. This image summarizes the main features including high precision rainfall measurement, programmable rainfall alarm, maintenance-free self-emptying design, 8 different rainfall measurements, and a white external machine for accurate temperature measurement.

Warranty Information

Specific warranty details for the YZDTECH Wireless Digital Rain Gauge (Model: Rain Gauge-3551E) are not provided in this manual. For information regarding warranty coverage, duration, and terms, please refer to the product packaging or contact YZDTECH customer support directly.

Customer Support

If you encounter any issues with your YZDTECH Wireless Digital Rain Gauge that cannot be resolved using the troubleshooting guide, or if you have further questions, please contact YZDTECH customer support. Contact information can typically be found on the product packaging, the manufacturer's website, or through your retailer.

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