



**Wireless Rain Gauge with 10-Day  
Rainfall Memory and Digital Clock  
MODEL: RGR682**

**USER MANUAL**

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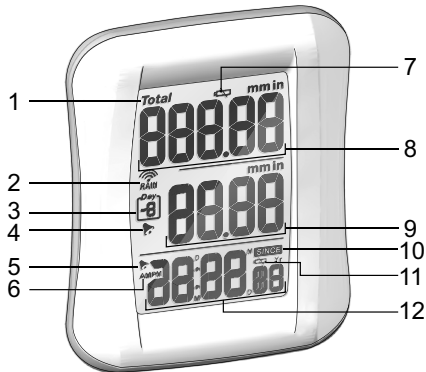
## INTRODUCTION

Thank you for selecting the Oregon Scientific™ Wireless Rain Gauge RGR682.

**NOTE** Keep this manual handy as you use your new product. It contains practical step-by-step instructions, as well as technical specifications and warnings you should know about.

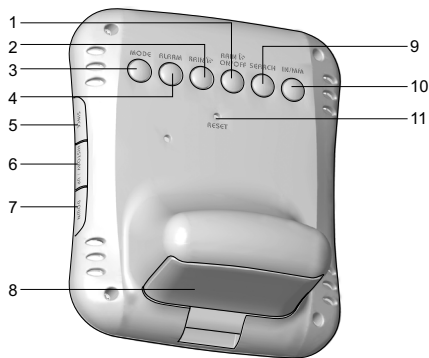
## MAIN UNIT OVERVIEW

### FRONT VIEW / LCD DISPLAY



1. Total rainfall indicator
2. Rain gauge RF reception status
3. Number of days of rainfall history
4. Rain alarm indicator
5. Clock alarm indicator
6. Clock AM / PM indicator
7. Rain collector battery low indicator
8. Total rainfall measurements indicator
9. Rainfall history
10. SINCE indicator
11. Main unit battery low indicator
12. Calendar clock / clock alarm / start date of total rainfall record

### BACK VIEW



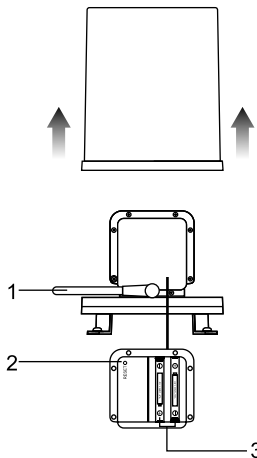


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1. **RAIN ON / OFF button:** Enables or disables the rainfall alarm
2. **RAIN button:** Press to display rain alarm (default 30mm). Press again to return to the rainfall display
3. **MODE button:** Toggles display between clock with seconds, clock with weekday, calendar and alarm time
4. **ALARM button:** Turns daily alarm off
5. **SINCE button:** Toggles between starting date of total rainfall calculation and clock; Press and hold to reset the total rainfall counter to start again
6. **HISTORY / UP button:** Displays rainfall history in normal mode; Increases a value in rainfall alarm / calendar clock setting mode
7. **DOWN button:** Decreases a value in rainfall alarm / calendar clock setting mode
8. Battery compartment
9. **SEARCH button:** Search for the rain collector
10. **IN / MM button:** Selects between inch and millimeter measurements
11. **RESET hole:** Returns all settings to their default values

## RAIN COLLECTOR OVERVIEW

### SIDE VIEW

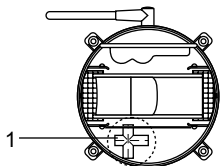


1. Antenna: Transmits radio signal to main unit
2. **RESET hole**
3. Battery compartment



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## TOP VIEW

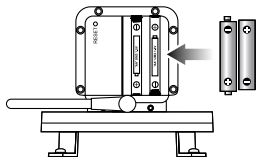


1. Cross: Checks the leveling of the rain collector

## BATTERY INSTALLATION

**NOTE** Do not use rechargeable batteries. We recommend that you use alkaline batteries with this product for longer usage.

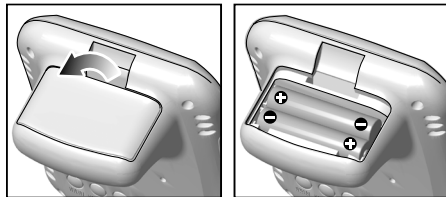
## RAIN COLLECTOR





Remove battery compartment and insert batteries according to polarities.

## MAIN UNIT

Open the battery compartment and insert batteries matching the polarities (+ / -).

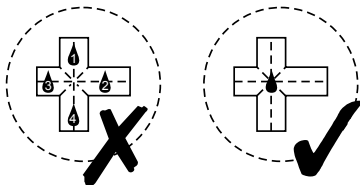


 indicates the batteries are low

UNIT	 LOCATION
Main	Clock area
Remote	Rainfall history area

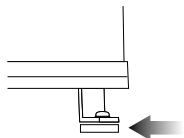
## SETUP

1. Mount the rain collector on a level surface, positioning it within effective range (30 m / 100 ft) of the main unit.
2. Put drops of water on the cross at the base to check the leveling.



Water staying at position 1-4 means the gauge is not leveled.

3. Use the metal ring to adjust the leveling of the rain collector.



4. Remove the fiber tape from around the bucket assemblies.



**NOTE** Each time the battery in the main unit is changed, repeat rain collector setup steps 1-4 before use.

## RAINFALL

Today's rainfall appears on the 1st line of the display and total rainfall is shown on the 2nd line. Press **IN** / **MM** to toggle between inches and millimeters.

## RAINFALL HISTORY

The rainfall history is displayed on the second line of the LCD display. The main unit can record and store up to nine days of rainfall.

### To display the record for a particular day:

Use **HISTORY** / **UP** to toggle between daily rainfall and rainfall history over the past nine days. The day of the record will be displayed with a minus (-) sign. Zero (0) means the record is for the current day.

### To clear the current day's rainfall:

Press and hold **SINCE** for two seconds. Note that this will also clear the total rainfall record.

**CAUTION** Other sensors using the 433 MHz transmission frequency may influence the rainfall reading. Please avoid placing those sensors too close to the unit.

## TOTAL RAINFALL

The total rainfall is displayed on the 1st line of the LCD display.

To display the commencing date of the total rainfall




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record, press **SINCE**. The date will appear on the bottom line of the display.

To clear the existing commencing date and reset it to start again, press and hold **SINCE**. The total rainfall and today rainfall will be reset to zero and the unit will start again to collect the rainfall data.


### RAINFALL ALARM


The rain alarm value can be displayed at any time by pressing **RAIN** .

#### To set the rainfall alarm:

1. Press and hold **RAIN**  for two seconds.
2. Use **HISTORY / UP** or **DOWN** to set the desired value.
3. Press **RAIN**  to confirm. The alarm will be activated.




The rain alarm indicator will light up.

The alarm will go off for one minute when the rainfall reaches the preset value and the rain alarm indicator will flash. A reminder beep will be emitted every minute. Once the rain alarm is on the indicator will not stop flashing unless **RAIN**  is pressed or the rain alarm value is changed. To stop the alarm and reminder beep, press any button or change the rainfall alarm value.

To toggle the alarm **ON / OFF**, press **RAIN**  **ON / OFF**.

### SIGNALS

If without obvious reason the main unit display goes blank, press and hold **SEARCH** for 2 seconds to enforce an immediate search of the rain collector.

ICON	DESCRIPTION
	No signal
	Searching for signal
	Signal connected

#### If that fails, check:

- The remote rain collector is still in place.
- The batteries of the main unit and rain collector have not run out of power. Replace them if necessary.
- The transmission is within range and path is clear of obstacles and interference. Shorten the distance if necessary.

Then press **SEARCH** again.

### CALENDAR CLOCK

The calendar clock is displayed on the bottom line of the display. Use **MODE** to toggle between clock, calendar and daily alarm.

#### To set the clock:

1. Press **MODE** to display the clock or calendar.
2. Press and hold **MODE** for two seconds and use **HISTORY / UP** or **DOWN** to set the desired clock or calendar value.



3. Press **MODE** and repeat from step 2 to complete all settings.
4. Press **MODE** to confirm.

#### To set the daily alarm:

1. Press **MODE** to display the daily alarm. The daily alarm will be activated automatically. The daily alarm indicator will light up.
2. Press and hold **MODE** for two seconds and use **HISTORY / UP** or **DOWN** to set the desired value. Press and hold for faster increments.
3. Press **MODE** and repeat from step 2 to complete all settings.

When active, the daily alarm will go off for one minute at the set time and the daily alarm indicator will flash.

#### To stop the alarm:

Press any button. The alarm is still active and will go off at the set time the following day.

#### To activate / deactivate the daily alarm:

Press **ALARM**.

### RESET

Press **RESET** to return the unit to the default settings.

### PRECAUTIONS

This product is engineered to provide years of satisfactory service if you handle it carefully. Here are a few precautions:

- Do not immerse the unit in water. If you spill liquid over it, dry it immediately with a soft, lint-free cloth.
- Do not clean the unit with abrasive or corrosive materials. They may scratch the plastic parts and corrode the electronic circuit.
- Do not subject the unit to excessive force, shock, dust, temperature or humidity, which may result in malfunction, shorter electronic life span, damaged battery and distorted parts.
- Do not tamper with the unit's internal components. Doing so will invalidate the warranty on the unit and may cause unnecessary damage. The unit contains no user-serviceable parts.
- Only use fresh batteries as specified in the user manual. Do not mix new and old batteries.
- Due to printing limitations, the displays shown in this manual may differ from the actual display.
- The contents of this manual may not be reproduced without the permission of the manufacturer.
- Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

**NOTE** The technical specifications for this product and the contents of the user manual are subject to change without notice.

## SPECIFICATIONS

TYPE	DESCRIPTION
<b>MAIN UNIT</b>	
Display rainfall range (total)	0 to 25.4 m (0 to 999.99 in)
Display rainfall range (history / daily)	0 to 2.54 m (0 to 99.99 in)
Rainfall resolution	1 mm (0.04 in)
Measuring accuracy	0 - 15 mm per hour: +/- 10% Over 15 mm per hour: +/- 15%
Display temperature range	-5°C to 50°C (23°F to 122°F)
Operating temperature range	-5°C to 50°C (23°F to 122°F)
<b>REMOTE RAIN COLLECTOR (PCR122)</b>	
RF transmission frequency	433 MHz
RF transmission protocol	2.1
RF transmission range	30 m (100 ft)
Operating temperature range	1°C to 60°C (34°F to 140°F)
<b>ALARM CLOCK AND CALENDAR</b>	
Clock	HH:MM 12 / 24 hour format
Calendar	Month / Day, Day / Month
Alarm	1-min. daily alarm

## POWER

Main unit	2 UM-4 or "AAA" 1.5V alkaline batteries
Rain collector	2 UM-3 or "AA" 1.5V alkaline batteries

## WEIGHT

Main unit	134 g (4.72 oz)
Remote rain collector	260 g (9.2 oz)

## DIMENSIONS

Main Unit	107x 87 x 56 mm (4.2 x 3.4 x 2.2 in)
Remote rain collector	140 x 145 mm (5.5 x 5.7 in)

**NOTE** It is recommended that you use alkaline batteries with this product for longer performance.

## ABOUT OREGON SCIENTIFIC

Visit our website ([www.oregonscientific.com](http://www.oregonscientific.com)) to learn more about Oregon Scientific products such as digital cameras; MP3 players; children's electronic learning products and games; projection clocks; health and fitness gear; weather stations; and digital and conference phones. The website also includes contact information for our Customer Care department in case you need to reach us, as well as frequently asked questions and customer downloads.

We hope you will find all the information you need on





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our website, however if you're in the US and would like to contact the Oregon Scientific Customer Care department directly, please visit:

[www2.oregonscientific.com/service/default.asp](http://www2.oregonscientific.com/service/default.asp)

OR

call 1-800-853-8883.

For international inquiries, please visit:

[www2.oregonscientific.com/about/International.asp](http://www2.oregonscientific.com/about/International.asp)



### EU-DECLARATION OF CONFORMITY

Hereby, Oregon Scientific, declares that this Wireless Rain Gauge with 10-Day Rainfall Memory and Digital Clock (Model: RGR682) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

A copy of the signed and dated Declaration of Conformity is available on request via our Oregon Scientific Customer Service.



**COUNTRIES RTE APPROVAL COMPLIED**

All EU countries, Switzerland  and Norway 

### FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

**WARNING** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.



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- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

This device may not cause harmful interference. 2) This device must accept any interference received, including interference that may cause undesired operation.

### DECLARATION OF CONFORMITY

The following information is not to be used as contact for support or sales. Please call our customer service number (listed on our website at [www.oregonscientific.com](http://www.oregonscientific.com)), or on the warranty card for this product) for all inquiries instead.

#### We

Name: Oregon Scientific, Inc.  
 Address: 19861 SW 95th Ave.,  
 Tualatin, Oregon 97062 USA  
 Telephone No.: 1-800-853-8883

#### declare that the product

Product No.: RGR682  
 Product Name: Wireless Rain Gauge with 10-Day  
 Rainfall Memory and Digital Clock  
 Manufacturer: IDT Technology Limited  
 Address: Block C, 9/F, Kaiser Estate,  
 Phase 1,41 Man Yue St.,  
 Hung Hom, Kowloon,  
 Hong Kong

is in conformity with Part 15 of the FCC Rules.  
 Operation is subject to the following two conditions: 1)



**Wireless Rain Gauge with 10-Day  
Rainfall Memory and Digital Clock  
Model: RGR682  
USER MANUAL**



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