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WeatherBox
Wireless Weather Station
 Model: BAR383HG / BAR383HGA

USER MANUAL

CONTENTS

Contents	1
Introduction	2
Clock Overview	2
Front View	2
Back View	2
LCD Display	3
Remote Sensor (RTGR383 / RTGR383A)	3
Getting Started	4
Setting up the Clock	4
Setting up the Sensor	4
Clock	5
Clock Reception	5
Reception Signal	6
Clock Display	6
Clock Settings	7
Alarm	7
Weather Forecast	7
Temperature and Humidity	8
Maximum / Minimum Records	8
Backlight	8
Reset	8
Precautions	8
Specifications	9
About Oregon Scientific	10
EU-Declaration of Conformity	10
FCC Statement	10
Declaration of Conformity	11



EN

INTRODUCTION

Thank you for selecting the Oregon Scientific™ wireless weather station. This weather station is supplied with a remote sensor (RTGR383 / RTGR383A) and can support up to 5 sensors in total (additional sensors sold separately).

NOTE Please 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.

NOTE Please take care when handling this product. For further information please see PRECAUTIONS.

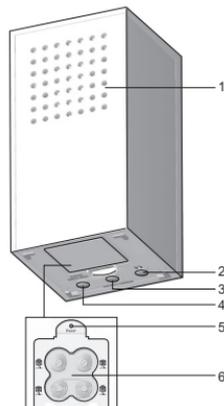
CLOCK OVERVIEW

FRONT VIEW



1. **MODE / SNOOZE**: select display area; toggle display modes; adjust settings; activate 8 minute snooze; deactivate alarm

BACK VIEW



1. Ventilation holes
2. °C / °F: toggle temperature display unit
3. **MEMORY** / **ON / OFF**: view temperature and humidity history; toggle alarm ON / OFF
4. **SEARCH SENSOR / RF CLOCK**: search for sensor / clock signal reception
5. **RESET**
6. Battery compartment

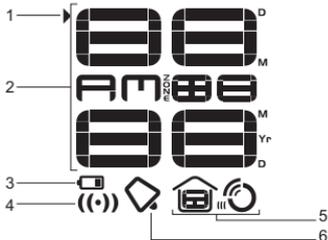
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LCD DISPLAY

Clock Display Area



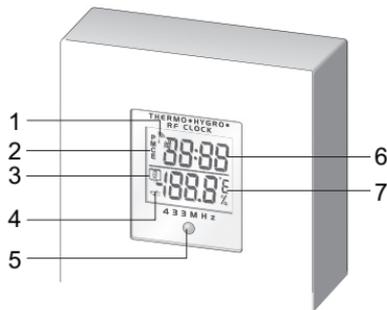
1. Area selected icon
2. Time display
3. Main unit battery low
4. Alarm mode selected
5. Clock signal reception
6. Alarm ON / OFF

Weather Display Area



1. Weather forecast
2. Sensor battery low
3. Indoor temperature and humidity
4. Outdoor temperature and humidity
5. Temperature
6. Maximum / minimum displayed
7. Humidity

REMOTE SENSOR (RTGR383 / RTGR383A)

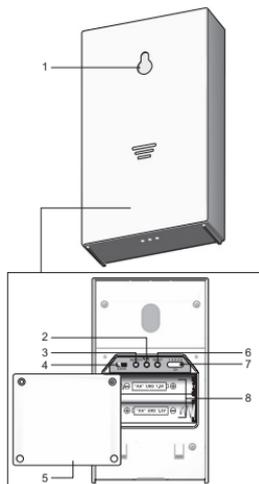


1. Clock reception
2. US time zone (RTGR383A only)
3. Sensor channel
4. Battery low icon
5. LED indicator
6. Clock
7. Temperature / humidity reading

3



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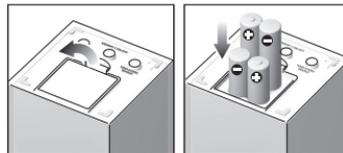
1. Wall Mount
2. °C / °F: toggle temperature display unit
3. **SEARCH**
4. **EU / UK** switch (RTGR383HG)
US TIME ZONE button (RTGR383HGA)
5. Battery Compartment Cover
6. **RESET**
7. Channel Switch (1 - 5)
8. Battery compartment



GETTING STARTED

SETTING UP THE CLOCK

Insert batteries before first use, matching the polarity (+ and -). RESET after each battery change.



 indicates the batteries are low.

UNIT	 LOCATION
Main unit	Clock display area
Remote sensor	Weather display area

NOTE Do not use rechargeable batteries. It is recommended that you use alkaline batteries with this product for longer usage and lithium batteries for temperatures below freezing.

SETTING UP THE SENSOR

1. Slide the rear panel off the sensor.
2. Open the battery compartment cover using a small screwdriver.
3. Insert the batteries, matching the polarity (+ and -) as shown in the battery compartment.
4. Set the channel switch. Select a different channel for each sensor.

4



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- Slide **EU / UK** to the position that matches your location (RTGR383). Press **US TIME ZONE** to select: Pacific (P), Mountain (M), Central (C) or Eastern (E) (RTGR383A).
- Press **°C / °F** to select temperature unit.
- Press **RESET** on the sensor.
- Close the remote sensor battery compartment and slide on the cover.

 indicates sensor batteries are low.

For best results:

- Place the sensor out of direct sunlight and moisture.
- Do not place the sensor more than 100 meters (328 feet) from the main (indoor) unit.
- Position the sensor so that it faces the main (indoor) unit, minimizing obstructions such as doors, walls, and furniture.
- Place the sensor in a location with a clear view to the sky, away from metallic or electronic objects.
- Position the sensor close to the main unit during cold winter months as below-freezing temperatures may affect battery performance and signal transmission.
- You may need to experiment with various locations to get the best results.

Standard Alkaline batteries contain significant amounts of water. Because of this they will freeze in low temperatures of approximately -12°C (10°F). Disposable Lithium batteries have a much lower threshold for

temperature with an estimated freezing range of below -30°C (-22°F).

Wireless ranges can be impacted by a variety of factors such as extremely cold temperatures. Extreme cold may temporarily reduce the effective range between the sensor and the base station. If the unit's performance fails due to low temperature, the unit will resume proper functioning as the temperature rises to within the normal temperature range (i.e. no permanent damage will occur to the unit due to low temperatures).

CLOCK

CLOCK RECEPTION

This product is designed to synchronize its calendar clock automatically once it is brought within range of a radio signal:

BAR383HG:

- DCF-77 generated from Frankfurt, Germany for Central Europe
 - MSF-60 generated from Rugby, England.
- The radio signal range is 1500km (932 miles)

BAR383HGA:

- WWVB-60 generated from the atomic clock in Fort Collins, Colorado.
- The radio signal range is 3219km (2000 miles)

The clock reception icon on the sensor indicates signal strength.



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STRONG	WEAK	NO SIGNAL

The reception icon will blink when it is searching for a signal. If the radio signal is weak, it can take up to 24 hours to get a valid signal reception.

RECEPTION SIGNAL

To force the sensor to search for clock signals:

- Press and hold **SEARCH** on the sensor for 2 seconds.

Clock area reception indicator:

ICON	DESCRIPTION
	Connection between main unit and sensor collecting signals
	Sensor signal reception
	Main unit has contacted sensor; time is synchronised
	Main unit has contacted sensor; time is not synchronised
	Main unit has lost contact with sensor; time is synchronised
	Main unit has lost contact with sensor; time is not synchronised
	Main unit cannot contact sensor
No icon	Clock reception disabled

To toggle clock reception ON/OFF:

1. Press **MODE / SNOOZE** to select Clock display area. ► appears to indicate the area selected.
2. Press and hold **SEARCH SENSOR/ RF CLOCK** for two seconds to enable / disable clock reception.

To force the clock to search for the sensor and retrieve clock signals:

1. Press **MODE / SNOOZE** to navigate to the Weather display area.
2. Press and hold **MEMORY / ON / OFF** for 2 seconds.

ICON	DESCRIPTION
	Main unit searching for sensor
	Sensor channel has been found
	The sensor cannot be found.

NOTE If the sensor is still not found, check the batteries, obstructions and remote unit location.

CLOCK DISPLAY

Rotate **MODE / SNOOZE** when clock display area is selected to choose between the following display modes:

- Clock with seconds
- Clock with weekday
- Calendar with weekday
- Time offset clock with weekday
- Alarm



CLOCK SETTINGS

You only need to do this if you have disabled the clock radio reception, or if you are too far from the radio signal.

To set the clock:

1. Press **MODE / SNOOZE** to select Clock display area and rotate **MODE / SNOOZE** to navigate to a clock display mode.
2. Press and hold **MODE / SNOOZE** for 2 seconds.
3. Rotate **MODE / SNOOZE** to adjust the setting.
4. Press **MODE / SNOOZE** to confirm and move to the next setting,
5. The settings order is: time offset, 12 / 24 hr format, hour, minute, year, month / day format, month, day and language.

NOTE If you enter + 1 in the time offset setting, this will give you your local time plus one hour. If you are in the US (BAR383HGA only) set the clock to:

0 for Pacific time	+1 for Mountain time
+2 for Central time	+3 for Eastern time

NOTE The language options are: English (E), French (F), German (G), Italian (I) and Spanish (S).

ALARM

To set the alarm:

1. Press **MODE / SNOOZE** to select Clock display area and rotate **MODE / SNOOZE** to navigate to

Alarm display mode. ((•)) will appear.

2. Press and hold **MODE / SNOOZE** for 2 seconds.
3. Rotate **MODE / SNOOZE** to select the hour and press **MODE / SNOOZE** to confirm.
4. Rotate **MODE / SNOOZE** to select the minute and press **MODE / SNOOZE** to confirm.  indicates alarm is ON.

To toggle alarms ON / OFF:

- Press **MEMORY /  ON / OFF**.  indicates alarm is ON.

To silence the alarm:

- Press **MODE / SNOOZE** to silence the alarm for 8 minutes. Press **MEMORY /  ON / OFF** to turn it off during the 8-minute snooze time.

OR

- Rotate **MODE / SNOOZE** or press any other key to stop the alarm and reset it to activate at the same time the next day.

WEATHER FORECAST

This product forecasts the next 12 to 24 hours of weather within a 30-50 km (19-31 mile) radius based on barometric pressure trend readings.

ICON	DESCRIPTION
	Sunny
	Partially cloudy
	Cloudy
	Rainy
	Snowy

TEMPERATURE AND HUMIDITY

To toggle temperature unit:

Press **°C / °F** on the main unit.

To select sensor displayed:

1. Press **MODE / SNOOZE** to select Weather area.
2. Rotate **MODE / SNOOZE**. indicates the sensor number currently displayed.

NOTE indicates indoor temperature and humidity is displayed.

To activate auto-scan between sensors:

1. Press **MODE / SNOOZE** to select Weather area.
2. Press and hold **MODE / SNOOZE** for 2 seconds. Each sensor's data will be displayed for 3 seconds.
3. To deactivate auto-scan press **MEMORY/ ON / OFF** or rotate **MODE / SNOOZE**.

NOTE If you select a sensor that collects only temperature data, humidity information will not be shown.



MAXIMUM / MINIMUM RECORDS

1. Press **MODE / SNOOZE** to select Weather area.
2. Press **MEMORY / ON / OFF** to toggle maximum / minimum and current settings for the sensor selected.

To clear maximum and minimum records press and hold **MEMORY / ON / OFF** for 2 seconds.

BACKLIGHT

Press **MODE / SNOOZE** to activate the backlight for 8 seconds.

RESET

To return the main unit to the default settings use a thin blunt object such as a ballpoint pen to press **RESET**.

To reset the sensor press **RESET** in the battery compartment.

PRECAUTIONS

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

- Do not cover the ventilation holes. Make sure items that are nearby such as newspapers, tabcloths, curtains etc cannot accidentally cover the ventilation holes.
- 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.

- Placement of this product on wood surfaces with certain types of finishes, such as clear varnish, may result in damage to the finish. Consult the furniture manufacturer's care instructions for direction as to the types of objects that may safely be placed on the wood surface. Oregon Scientific shall not be responsible for any damage to wood surfaces from contact with this product.
- 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.
- 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's instructions. 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
MAIN UNIT	
L x W x H	80 x 80 x 150 mm (3.15 x 3.15 x 5.9 in)
Weight	530 g (18.7 oz)
Temperature unit	°C / °F
Indoor temperature range	-5°C to 50°C (23°F to 122°F)
Outdoor temperature range	-20°C to 60°C (-4°F to 140°F)
Temperature resolution	0.1°C (0.2°F)
Clock frequency	DCF-77 (EU) MSF-60 (UK) WWVB-60 (US)
Signal frequency	433MHz
Clock signal reception	Auto or manual (disabled)
Humidity range	25% - 95%
Humidity resolution	1%
Memory	Min / Max humidity and temperature
Alarm duration	2 minutes
Snooze	8 minutes
Hour format	12 / 24 hour format
Calendar language	E, I, F, D, or S
Power	4 x UM-3 (AA) 1.5V
REMOTE UNIT	
L x W x H	70 x 25 x 120 mm (2.8 x 1.0 x 4.7 in)



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Weight	180 g (6.3 oz) with battery
Transmission range	70 m (230 ft) unobstructed
Power	2 x UM-3 (AA) 1.5V
Channels	1 - 5
Temperature unit	°C / °F

ABOUT OREGON SCIENTIFIC

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

<http://www2.oregonscientific.com/service/default.asp>

OR

Call 1-800-853-8883.

For international inquiries, please visit:

www2.oregonscientific.com/about/international.asp

EU-DECLARATION OF CONFORMITY

Hereby, Oregon Scientific, declares that the Wireless Weather Station (Model BAR383HG) 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 RTTE 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,



EN

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.
- 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.

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), 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.: BAR383HGA
 Product Name: Wireless Weather Station
 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) This device may not cause harmful interference. 2) This device must accept any interference received, including interference that may cause undesired operation.