

# SCIENTIFIC

Slimline Weather Station Model: BAR988HG / BAR986HG

**User Manual** 

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## Slimline Weather Station Model: BAR988HG / BAR986HG

User Manual

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#### INTRODUCTION

Thank you for selecting the Oregon Scientific<sup>™</sup> BAR988HG / BAR986HG Slimline Weather Station. This powerful device bundles time keeping, weather monitoring, indoor and outdoor temperature and humidity readings, barometric trends and altitude adjustment, into a single tool you can use from the convenience of your home. 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.

In this box, you will find:

- Main unit
- Remote sensor (RTGR328N)
- Optional UV sensor (UVR138)
- · 6V AC adapter
- Batteries

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BAR988HG --- BAR988HG Main Unit + RTGR328N Remote Sensor

BAR986HG --- BAR988HG Main Unit + RTGR328N Remote Sensor + UVR138 UV Sensor

**NOTE** The THGR328N (5-Channel) and THGR228N (3-Channel) remote sensors are also compatible with this weather station. Additional sensors are sold separately. Please contact your local stockist for more information.

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#### PRODUCT OVERVIEW

FRONT VIEW

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- 1. LCD display
- 2. MODE: Change settings / display
- 3. **MEMORY:** View current, maximum and minimum temperature / humidity / UV readings
- 4. **HISTORY:** View historical barometer and UV readings
- 5. ALARM / \*: View alarm status; set alarm
- SNOOZE / LIGHT: Activate 8-minute snooze or backlight
- 7. SELECT: Switch Areas
- 8. CHANNEL: Switch remote sensor display
- 9. UP: Increase setting / activate radio-controlled clock
- 10. DOWN: Decrease setting / deactivate radiocontrolled clock

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- 1. Ventilation holes
- 2. Battery compartment (bottom)
- 3. AC adaptor socket
- 4. °C / °F switch (in battery compartment)
- 5. **RESET** button (in battery compartment)
- 6. **mb / inHg** switch (in battery compartment)

You can adjust the angle of the clock display as shown below:



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- 1. Weather Forecast Area: Animated weather forecast
- Temperature / Humidity / Comfort Zone Area: Readings and trend lines; comfort zone; sensor channel number
- UVI / Barometer Area: UV level and barometric pressure bar chart; UV Index and barometric readings
- 4. Clock / Alarm / Calendar Area: Radio-controlled clock; alarms; calendar

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#### Weather Forecast Area



- 1. Low battery icon for main unit
- 2. AC adaptor icon displays when unplugged
- 3. Weather display

Temperature / Humidity / Comfort Zone Area



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- 1. Selected Area icon
- 2. Temperature trend
- 3. Channel number (1-5) / reception status
- 4. Low battery icon for remote sensor
- 5. Humidity trend
- 6. MAX / MIN temperature
- 7. Temperature °C / °F
- 8. Heat Index
- 9. MAX / MIN humidity
- 10. Humidity
- 11. Comfort levels



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#### UVI / Barometer Area

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- 1. Barometric pressure is showing
- 2. UV is showing
- 3. Low battery icon for UV sensor
- 4. UVI value is showing
- 5. UV exposure time countdown has started
- 6. UV index level
- 7. UV exposure time for user
- 8. Barometer / UV chart
- 9. SPF applied to user for UV exposure
- 10. User skin type for UV exposure
- 11. User no. (for UV Mode) or hour history for UV / Barometric pressure reading

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12. Altitude / barometric pressure / UVI reading

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Clock / Alarm / Calendar Area



- 1. Pre-Alarm is set
- 2. Pre-Alarm display / Pre-Alarm setting
- 3. Channel with RF clock reception is locked
- 4. RF clock reception icon
- 5. Daily Alarm is set
- 6. Offset time-zone
- 7. Time / date / calendar

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- 1. LCD display
- 2. LED status indicator
- 3. Ventilation duct



- 1. Signal reception
- 2. Channel number
- 3. Low battery icon
- 4. Time
- 5. Temp (°C or °F)
- 6. Humidity %
- 7. Temp / Humidity

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- 1. Wall mount
- 2. CHANNEL switch (1-5)
- 3. RESET

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- 4. °C / °F
- 5. SEARCH
- 6. EU / UK radio signal format switch
- 7. Battery compartment
- 8. Fold-out stand

### **GETTING STARTED**

#### BATTERIES

Batteries are supplied with this product:

- Main unit 4 x UM-4 (AAA) 1.5V
- · Remote unit 2 x UM-3 (AA) 1.5V

Insert batteries before first use, matching the polarity as shown in the battery compartment. For best results, install batteries in the remote sensor before the main unit. Press RESET after each battery change.

To install the main unit batteries:



NOTE Do not use rechargeable batteries.

shows when batteries are low.

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

UNIT		
Main	Weather Forecast Area	
Remote	Temperature / Humidity Area	
UV Sensor	UVI / Barometric Pressure Area	

#### AC ADAPTOR (MAIN UNIT)

The batteries serve as a back-up power supply. For continuous use, please install the AC adaptor at the base of the unit:



shows in the Weather Forecast Area when the AC adapter is not plugged in.

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#### CHANGE SETTINGS

Press SELECT to switch between Areas. 
 indicates the selected Area.



- Most Areas have alternate display options (for example, Clock / Alarm or Barometer / UVI). Press MODE to switch options, or ALARM / \* to switch between clock and alarm.
- 3. Press and hold **MODE** for 2 seconds to enter setting mode.
- 4. Press UP or DOWN to change settings.
- 5. Press MODE to confirm.

#### **REMOTE SENSOR**

This product is shipped with the RTGR328N Thermo / Hygro Sensor. The main unit can collect data from up to 6 sensors (5 Thermo / Hygro Sensors and 1 UV Sensor). The THGR328N and THGR228N sensors are also compatible with this weather station. (Additional sensors are sold separately. Contact your local stockist for more information.)

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The RTGR328N Sensor collects temperature and humidity readings, and signals from official time-keeping organizations for the radio-controlled clock.

#### SET UP THERMO / HYGRO SENSOR (RTGR328N)

- 1. Open the battery compartment with a small Phillips screwdriver.
- 2. Insert the batteries.
- 3. Set the channel and radio signal format. The switches are located in the battery compartment.

SWITCH	OPTION
Channel	If you are using more than one sensor, select a different channel for each sensor.
Radio Signal Format	EU (DCF) / UK (MSF)

4. Press RESET. Then set the temperature unit.

SWITCH	OPTION
Temp	°C / °F

5. Close the battery compartment.

To fold out the stand:



#### For best results:

- Insert the batteries and select the unit, channel, and radio signal format before you mount the sensor.
- Place the sensor out of direct sunlight and moisture.
- Do not place the sensor more than 70 metres (230 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.

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**NOTE** The transmission range may vary and is subject to the receiving range of the main unit.

You may need to experiment with various locations to get the best results.

#### SENSOR DATA TRANSMISSION

Data is sent from the sensor(s) every 60 Seconds. The reception icon shown in the Temperature / Humidity Area indicates the status.

ICON	DESCRIPTION
∄→⊕→∄	Main unit is searching for sensors.
⊕→ᠿ→ᠿ	At least 1 channel has been found.
	Sensor 1 is sending data. (The number shows which sensor is selected.)
shows in Temp / Humidity Area	The selected sensor cannot be found. Search for the sensor or check batteries.

#### SEARCH FOR SENSOR

To search for a Thermo / Hygro sensor, press **SELECT** to navigate to the Temperature / Humidity Area. ▼ will show next to the Area. Then, simultaneously press and hold **MEMORY** and **CHANNEL** for 2 seconds.

**NOTE** If the sensor is still not found, check the batteries.

#### **CLOCK AND CALENDAR**

This product tracks the time and date based on radiocontrolled signals from the RTGR328N remote sensor, or manual settings that you enter.



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#### RADIO-CONTROLLED CLOCK

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The time and date are automatically updated by radiocontrolled clock signals from official time-keeping organizations in Frankfurt (Germany) and Rugby (England) unless you disable this feature. The signals are collected by the remote sensor (RTGR328N) whenever it is within 1500 km (932 miles) of a signal.

Initial reception takes 2-10 minutes, and is initiated when you first set up the unit, and whenever you press **RESET**. Once complete, the reception icon will stop blinking.

The  $\bigoplus_{n \in \mathbb{N}} \mathcal{O}$  icon shown in the Clock Area indicates 2 factors:

- Connection between the main unit and the sensor that collects RF signals ( [[])
- RF signal reception ( <sup>(C)</sup>)

How these signals work together:

ICON	MEANING
	The unit has contact with the sensor and has synchronized the time.
	The unit has contact with the sensor but the time has not been synchronized.

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ICON	MEANING
	The unit has lost contact with the remote sensor but the time is synchronized.
	The unit has lost contact with the remote sensor and the time is not synchronized.
	The unit cannot reach the remote sensor.

**NOTE** To force a manual search for RF clock reception, press and hold **SEARCH** on the sensor (RTGR328N) for 2 seconds.

#### TURN RADIO-CONTROLLED CLOCK ON / OFF

If you wish to manually set the clock, you must first disable the radio-controlled feature. To do this, navigate to the Clock / Alarm Area. Then, press and hold **DOWN** on the main unit for 2 seconds. To enable it, navigate to the Clock / Alarm Area, then press and hold **UP** for 2 seconds.

RF clock enabled:



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RF clock disabled:



#### SET CLOCK

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

- Press SELECT to navigate to the Clock Area. 
   will show next to the Area.
- 2. Press and hold MODE for 2 seconds.
- Select the time zone offset hour (+ / -23 hours), 12 / 24 hour format, hour, minute, year, date / month format, month, date and display language.
- 4. Press UP or DOWN to change the setting.
- 5. Press MODE to confirm.

**NOTE** The language options are (E) English, (F) French, (D) German, (I) Italian, and (S) Spanish. The language you select determines the weekday display.

#### SWITCH CLOCK DISPLAY

Press **SELECT** to navigate to the Clock Area.  $\checkmark$  will show next to the Area.

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Press MODE to toggle between:

- Clock with seconds
- Clock with day
- · Clock with time-zone offset
- · Calendar

#### ALARMS

This product has 2 alarms: The Daily Alarm and a Pre-Alarm for snowy weather. The Daily Alarm can be set to go off at the same time every day. The Pre-Alarm sounds only when the Daily Alarm is activated and the recorded temperature from Channel 1 Sensor falls to  $2^{\circ}$ C (35.6°F) or below.

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#### SET DAILY ALARM

- Press SELECT to navigate to the Clock Area. 
   will show next to the Area.
- 2. Press ALARM / \* to view the alarm. (AL will show at the top.)
- 3. Press and hold ALARM / \* for 2 seconds.
- Select the hour and minute. Press UP or DOWN to change settings.
- 5. Press ALARM / \* to confirm.
- The Daily Alarm icon raise will appear when the alarm is set.

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#### SET PRE-ALARM

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The Pre-Alarm can be set to sound 15, 30, 45, or 60 minutes before the Daily Alarm. It will sound whenever the recorded temperature from Channel 1 Sensor falls to  $2^{\circ}$ C (35.6°F) or below.

For example, if you set the alarm to 7:00 AM, and the Pre-Alarm to 45 minutes, the Pre-Alarm will sound at 6:15 AM provided the outdoor temperature at Channel 1 Sensor is 2°C or below.

- 1. Set up and activate the Daily Alarm.
- Press ALARM / \* to switch to Pre-Alarm view. (PRE-AL will show at the top.)
- 3. Press and hold ALARM / \* for 2 seconds.
- Press UP or DOWN to select 15, 30, 45 or 60 minutes. This is the amount of time the Pre-Alarm will sound BEFORE the Daily Alarm. The Pre-Alarm is automatically activated when you select a time.
- 5. Press ALARM / \* to confirm.
- \* shows when the Pre-Alarm is set.

**NOTE** The Daily Alarm will NOT function until the next day if the Pre-Alarm has been triggered. Also, if you deactivate the Daily Alarm, the Pre-Alarm is automatically deactivated.

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#### ACTIVATE ALARM

Navigate to the Clock Area, then press **ALARM** / **\*** to switch to Daily Alarm or Pre-Alarm view. To activate or deactivate the alarm, press **UP** or **DOWN**.

When the alarm time is reached, the backlight will be on for 8 seconds and crescendo alarm will sound for 2 minutes. Press any key (except snooze) to silence the alarm. It will sound at the same time the next day.

#### SNOOZE

Press **SNOOZE / LIGHT** to temporarily disable the alarm for 8 minutes. **•** or **\*** will blink while snooze is on.

#### BAROMETER

This product tracks fluctuations in barometric pressure to provide the weather forecast, and the current and past 24 hours barometric pressure history measurements are recorded by the main (indoor) unit.

#### VIEW BAROMETER AREA

Press SELECT to navigate to the Barometer Area.

If m is NOT shown, press MODE.

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Barometric data is shown in 2 areas at the bottom of the display. The upper area shows a 24-hour bar chart. The lower area shows current and historical readings.



#### SELECT MEASUREMENT UNIT

Slide the **mb** / **inHg** switch (in the clock battery compartment), to change the display unit.

#### VIEW BAROMETER HISTORY

Navigate to the Barometer Area. Then press **HISTORY** repeatedly to scroll through the measurements. The number shown in the HR box indicates how long ago each measurement was taken (e.g. 2 hours ago, 3 hours ago, etc.).

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#### **BAR CHART DISPLAY**

The bar chart visually shows atmospheric changes from the current hour (0) to 24 hours prior (-24).

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	-	• ===	• 💼	• 💼	•	+2
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		-0			0	
	-24	-24 -12	-24 -12 -6	-24 -l2 -6 -3	-24 -l2 -6 -3 -l	-24 -12 -6 -3 -1 0

#### SET ALTITUDE

Set the altitude to match how far above or below sea level you are living. This ensures that the barometric pressure readings are accurate.

- 1. Navigate to the Barometer Area.
- 2. Press and hold HISTORY for 2 seconds.

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- 3. Press **UP** or **DOWN** to set the altitude in 10-metre increments (-100m to 2500m).
- 4. Press **HISTORY** to confirm.

#### WEATHER FORECAST

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



The top area shows an animated icon indicating the forecasted weather.

WEATHER FORECAST ICONS

ICON	DESCRIPTION
	Clear
Day / Night	
	Partly cloudy
Day / Night	
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**NOTE** The night time icon displays from 6 PM to 6 AM. When the Channel 1 sensor records a temperature of  $2^{\circ}C$  (35.6°F) or lower, the RAINY icon becomes SNOWY.

#### **UV MEASUREMENT**

The UVR138 Ultra-Violet Radiation Sensor is included with the BAR986HG and is available as an optional item for the BAR988HG. The UV sensor gives you the following information at your fingertips:

- 10-hour Ultra-Violet Index (UVI) record.
- Automatic calculation of acceptable UV exposure times based on pre-set user profiles (4 users maximum).

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UVI Danger Alert when UV Index reaches unsafe levels.

UV data is shown in the same area as the Barometer. Press **SELECT** to navigate to the Barometer Area, then press **MODE** to display the UV icon 承 and data.

**NOTE** Refer to the UVR138 User Manual for more information and see below to learn about the new additional UV features.

#### **NEW ADDITIONAL UV FEATURES**

#### UV EXPOSURE TIME COUNTDOWN

To set the exposure time countdown you need set to the Skin Type and Sun Protection Factor (SPF) as follows:

1. Press **SELECT** to navigate to the Barometer Area, then press **MODE** to select the UV display.



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- 2. Press CHANNEL to select user 1-4.
- 3. Press and hold **MODE** for 2 seconds to enter the Skin Type Setting Mode of the selected user.

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- Press UP or DOWN to choose 1 of the 4 skin type settings. Then press MODE to confirm and enter the SPF Set Up Mode.
- 5. Press UP or DOWN to increase or decrease the SPF value. Then press MODE to confirm and enter the UV Exposure Time Countdown Setting Mode.
- Press UP or DOWN to enable or disable countdown. Press MODE to exit the UV Exposure Time Countdown Mode and start the exposure time countdown. The remaining user UV exposure time will display and the START will flash.
- When the countdown has reached "0", an alarm will sound for 2 minutes. Press any button to turn the alarm off. The SKP icon will flash for 2 minutes even if you have stopped the alarm sound.

#### MAXIMUM / MINIMUM MEMORY FOR UVI

To view the maximum and minimum memory for UVI:

- 1. Press **SELECT** to navigate to the Barometer Area.
- 2. Press MODE to select the UV display.
- Press MEMORY to show maximum, minimum and current UVI readings.
- 4. Press and hold **MEMORY** for 2 seconds to clear the UVI memory.

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**NOTE** The UV sensor must be activated before you try and set the additional features. Please refer to the UVR138 User Manual for more information.

#### **TEMPERATURE AND HUMIDITY**

The weather station can display the following information from any of the 5 remote sensors:

- Current, minimum, and maximum temperatures and relative humidity percentages.
- Comfort level indicator and trend line (rising, falling, or steady).

Data is collected and displayed approximately every 60 seconds.

#### VIEW TEMPERATURE AND HUMIDITY AREA

Press **SELECT** to navigate to the Temperature and Humidity Areas.

Temperature data is given at the top; Humidity is below.



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#### SELECT MEASUREMENT UNIT

Slide the °C / °F switch (inside the clock battery compartment), to the setting you want.

#### SELECT SENSOR CHANNEL

Press CHANNEL to switch between sensors 1-5.



The house icon shows the selected remote sensor.

- To auto-scan between sensors, press and hold CHANNEL for 2 seconds. Each sensor's data will be displayed for 3 seconds.
- To end auto-scan, press CHANNEL or MEMORY with the Temperature / Humidity Area selected.

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

#### MINIMUM / MAXIMUM RECORDS

- Press MEMORY repeatedly to view current, maximum and minimum records for the selected sensor.
- To clear the records, press and hold MEMORY for 2 seconds. A beep will sound to confirm that the memory has been cleared.

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#### TEMPERATURE AND HUMIDITY TREND

The trend lines are shown next to the temperature and humidity readings.

TREND	RISING	STEADY	FALLING
TEMPERATURE	, and the second s		Treme
HUMIDITY	() NAME		

#### COMFORT ZONE

The Comfort Zone indicates how comfortable the climate is, based on current temperature and humidity measurements.

ZONE	TEMPERATURE	HUMIDITY
WET	Any	>70%
СОМ	20-25°C (68-77°F)	40-70%
DRY	Any	<40%

**NOTE** This information is shown in the Humidity Area when the current measurement is displayed.

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#### HEAT INDEX

The Heat Index advises 4 levels of warning if the temperature is high.

DANGER	TEMPERATURE		
CATEGORY	°C	°F	
Extreme Danger	>54.5	>130	
Danger	40.5-54.4	105-130	
Extreme Caution	32.2-40.5	90-105	
Caution	26.6-32.2	80-90	

To display the Heat Index:

- Press SELECT to navigate to the Temperature Area.
   will show next to the Area.
- 2. Press MODE to reach the Heat Index display.
- 3. Press CHANNEL to select the desired channel.

**NOTE** If the temperature is below 26°C / 80°F, or the desired channel is not working, the Heat Index will display "NA".

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#### BACKLIGHT

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Press **SNOOZE / LIGHT** to illuminate the backlight for 8 seconds.

#### RESET SYSTEM

The **RESET** button is located at the bottom of the unit. Press **RESET** when you change the batteries and whenever performance is not behaving as expected (for example, unable to establish radio frequency link with remote unit or radio-controlled clock).

**NOTE** When you press **RESET**, all settings will return to default value, and you will lose all stored information.

#### SAFETY AND CARE

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Clean the product with a slightly damp cloth and alcoholfree, mild detergent. Avoid dropping the product or placing it in a high-traffic location.

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#### WARNINGS

This product is designed to give you years of service if handled properly. Oregon Scientific will not be responsible for any deviations in the usage of the device from those specified in the user instructions or any unapproved alterations or repairs of the product. Observe the following guidelines:

- Never immerse the product in water. This can cause electrical shock and damage the product.
- Do not subject the main unit to extreme force, shock, or fluctuations in temperature or humidity.
- · Do not tamper with the internal components.
- Do not mix new and old batteries or batteries of different types.
- Do not use rechargeable batteries with this product.
- Remove the batteries if storing this product for a long period of time.
- · Do not scratch the LCD display.

**NOTE** The technical specification of this product and contents of this user guide are subject to change without notice. Images not drawn to scale.

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TROUBLESHOOTING			
PROBLEM	SYMPTOM	REMEDY	
Barometer	Strange readings	Set altitude / unit (→ 17)	
Calendar	Strange date / month	Change language (→ 15)	
Clock	Cannot adjust clock	Disable radio- controlled clock $(\rightarrow 14)$	
	Cannot auto-synch	1. Adjust batteries (→ 10)	
		2. Press <b>RESET</b> (→ 22)	
		<ol> <li>Manually activate radio- controlled clock (→ 14)</li> </ol>	
Temp	Shows "LLL" or "HHH"	Temperature is out-of-range	
Remote sensor	Cannot locate remote sensor	Check batteries (→ 12)	

## SPECIFICATIONS

Weight

Weight

Unit

#### Main Unit Dimensions LxWxH 120 x 86 x 188 mm (4.72 x 3.39 x 7.40 inches) 376 grams (0.83 lbs) without battery **Remote Unit Dimensions** LxWxH 70 x 24.5 x 116 mm (2.76 x 0.96 x 4.57 inches) 108 grams (0.24 lbs) without battery Temperature °C or °F Indoor Range -5 °C to 50 °C (23 °F to 122 °F)

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Outdoor Range -20 °C to 60 °C (-4 °F to 140 °F) Resolution 0.1 °C (0.2° F) Comfort 20 °C to 25 °C (68 °F to 77 °F) Min / Max Memory

#### **Relative Humidity**

Range	25% to 95%
Resolution	1%

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ī	∠ □ Comfort	40% to 70%	Calendar	DD / MM or MM / DD:	
	Memory	Min / max		Day of the week in 1 of 5 languages (E, G, F, I, S)	
	Barometer		Alarm	Daily & Pre-Alarm; 2-minute crescendo	
	Unit Resolution	mb / hPa or inHg 1 mb (0.03 inHg)	Snooze	8-minute snooze	
	Altitude	-100 to 2500 metres (-328 to 2734 feet)	Power		
	Display	Sunny (day / night), partly cloudy (day /	Main Unit		
		nighť), cloudy, rainy, snowy	Power adapter Batteries	6V AC adapter 4 x UM-4 (AAA) 1.5V	
Ŧ	Remote Unit (RTGR328	Remote Unit (RTGR328N)		Thermo / Hygro Remote Unit	
	RF frequency	433 MHz	Batteries	2 x UM-3 (AA) 1.5V	
ļ	Range	Up to 70 metres (230 feet) with no obstructions	NOTE It is recom	mended that you use alkaline	
	Transmission Approx. every 1 minute		batteries with this pro-	oduct for longer performance.	
	Channel No.	1, 2, 3, 4 or 5			
	Unit	°C or °F			
	Radio-Controlled Clock				
	Synchronization	Auto or disabled			
	Clock display	HH:MM:SS			
	Hour format	12hr AM/PM (MSF format) 24hr (DCF format)			
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#### **EC-DECLARATION OF CONFORMITY**

This product contains the approved transmitter module that complies with the essential requirements of Article 3 of the R&TTE 1999 / 5 / EC Directive, if used as intended and the following standards have been applied:

#### Safety of information technology equipment

(Article 3.1.a of the R&TTE Directive) Applied Standard EN 60950-1 : 2001

#### Electromagnetic compatibility

(Article 3.1.b of the R&TTE Directive) Applied Standards ETSI EN 301 489-1-3 (Ver.1.4.1) : 2002-08

#### Efficient use of radio frequency spectrum

(Article 3.2 of the R&TTE Directive) Applied Standards ETSI EN 300 220-3 (Ver1.1.1) : 2000-09 Additional information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EC, the EMC Directive 89/336/EC and carries the CE marking accordingly.

Carmelo Cubito Agrate Brianza (MI) / Italy January 2004 Manufacturer's EU R&TTE Representative



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All EC countries, Switzerland CH

and Norway 🕥





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