Oregon
S C I E N T I F I C

WIRELESS WEATHER STATION
Model : RAR191

User Manual

Congratulations on purchasing the GŽonaute WS300. This weather station features a wireless indoor/outdoor thermometer with a sensor, and a clock. The package contains a main unit (the temperature station and the clock), and a wireless sensor. Knowing the indoor and outdoor temperatures will enable you to bring the right gear along to workouts, and to exercise under optimal conditions of comfort and safety.

Read these instructions carefully before using this device and save them as long as you have the product.

LIMITED WARRANTY

DECATHLON guarantees the initial purchaser that this weather station is free from any defects related to the materials or manufacture for a period of two years from the date of purchase. **Please keep your receipt as proof of purchase.**
. This guarantee does not cover damage resulting from misuse, from a failure to respect the precautions for use nor from accidents; neither does this guarantee cover damage resulting from improper maintenance or from use of the item for commercial purposes.
. This guarantee does not cover damage resulting from repairs carried out by parties not authorized by DECATHLON.
. The guarantees contained here explicitly replace all other guarantees including the implicit guarantee of fair and trade quality and/or adaptation to use. DECATHLON cannot under any circumstances be held responsible for any damage, be it direct or indirect, general or specific, caused by or related to these directions for use or the products they describe.
. During the guarantee period, the item will either be repaired free of charge by an authorized repair service or replaced free of charge (depending on the distributor).
. The guarantee does not cover batteries or cracked or broken casings where signs of a blow are evident.

USE Ð PRECAUTIONS FOR USE

Description of normal conditions of use

The weather station is designed to measure the indoor temperature (at the receiver) and outdoor temperature (at the wireless sensor).

The main unit is capable of recording minimum and maximum temperatures of different areas. No wiring is needed, as the WS300 operates with a radio transmission frequency of 433 MHz.

The clock features five display language options and an alarm.

Restrictions on use/precautions for use

. Handle the device with care; do not drop it or bang it.

. Do not dismantle the device or the sensor. Doing so would nullify the DŽcathlon warranty and may damage the device. This point does not concern the procedure of changing the batteries, described under the heading "Changing the batteries".

. Please read instructions carefully before use and operate the device under normal operating conditions.

. The receiver is not watertight. It is designed for indoor use. Place it on a flat, stable surface or fasten it to the wall in a well-ventilated, clean room, away from direct sunlight.

. The wireless sensor is resistant to splashes, but it should never be immersed in water or exposed to heavy rain. Avoid prolonged exposure to direct sunlight and wind.

. Do not expose the receiver or the sensor to extreme temperatures. In wintertime, cold temperatures reduce the power and lifetime of the sensor's batteries. This means that at cold temperatures (0_iC), the sensor may stop transmitting a signal although it was transmitting at summer temperatures (20_iC). To solve the problem, bring the sensor closer or use rechargeable Ni-MH batteries, which are less sensitive to the cold, and change the batteries more often.

. Like any device utilizing radio transmission, the receiver and the wireless sensor are sensitive to electromagnetic interference. Do not place them near electromagnetic sources (televisions, computers, cordless telephones, electrical equipment) which may impair their functioning.

Recycling:

The "crossed-out trash can" symbol means that this product, as well as the batteries it contains, are made of recyclable materials. **They should not be disposed of with municipal waste.**

Deposit the batteries and your unusable electronic product in an authorized collection area for recycling. This treatment of your electronic waste will protect the environment and your health.

Ⓐ- Three-line display
Enables easy reading of weather forecasts, indoor temperature, remote temperature and clock calendar.

Ⓑ - MODE/SETTING control
Changes the display mode of the clock and alternates between time/date settings.

Ⓒ - Up (▲) control
Increases the value of a setting.

Ⓓ - Down control (▼)
Decreases the value of a setting.

Ⓔ - Memory control (MIN/MAX)
Displays the minimum or maximum temperature of the main unit and the remote sensor.

Ⓕ - Alarm control [AL]
Displays the alarm time and changes alarm status.

Ⓖ - Resetting/RESET control
Resets all the settings to their default values.

Ⓗ - ¡C/¡F control
Selects Celsius (¡C) or Fahrenheit (¡F) degrees.

Ⓘ Ð Battery housing
Housing for the two alkaline LR6-AA, 1.5V batteries.

Ⓙ Ð Removable base
For placing the device on a flat surface.

Ⓚ Ð Hole for wall mounting
For hanging the main unit on a wall.

Ⓛ Ð SEARCH control
For resetting communication with the sensor.

FIRST USE / GETTIN' STARTED

⚠ **IMPORTANT!!!**

This paragraph is crucial to ensuring proper use of the device. It is very important to follow the instructions STEP by STEP when using the station for the first time. Do not skip any steps or do them out of order. The order of the steps is important.

In case of problems, you can always come back to this procedure to reset the whole system and get a fresh start.

Initializing procedure: gettin' started

. Preparation

It is important to start the initializing or problem-solving procedure according to the precise configuration described below. The following checklist must be followed in the right order. Each item on the list is important.

1. Two new LR6-AA 1.5 V batteries are included for use with the station. The batteries are not installed in the device.
2. Two new LR6-AA 1.5 V batteries are included for use with the sensor. The batteries are not installed in the device.
3. One cross-tip screwdriver for the screws of the sensor (precision model) (not included).
4. The WS300 station, with battery cover open.
5. The sensor, with battery cover open on its table stand
6. A fine tip to press on the reset button of the sensor (not included).

Place all the items on the same table, away from any sources of interference (televisions, cell phones etc.).
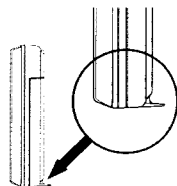
1- Insert the batteries in the sensor according to the indicated polarities.
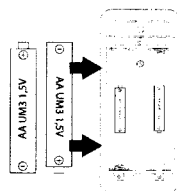
2- Carefully reinsert the seal of the sensor, then close the battery cover of the sensor using the Phillips head screws.
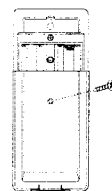
3- Position the sensor in an upright position on the table, using the table stand provided.

4- Insert the batteries in the station according to the indicated polarities. Close the cover and put the base back. Verify that the station is displaying something. If it is not, check the position of the batteries.
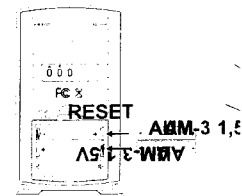
5- Press on the Reset button of the station to reset the measurements. Make sure that the temperature-signal receiving indicator is displayed (see corresponding section). If the temperature is not displayed, press on the **SEARCH button**.
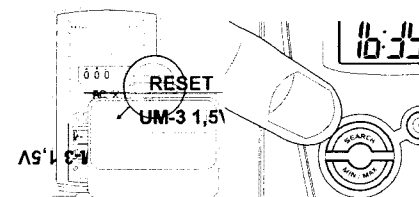
6- To enter time setting mode, press on the **MODE** button for 3 seconds. Change the parameters with the arrows located on the back of the device and change the parameter to be set to by briefly pressing on the **MODE** button.
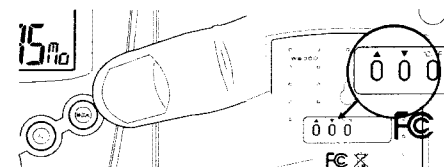
7- Place the station and the sensors in their permanent locations. Make sure to position the sensors upright and not to exceed the distances recommended in the instructions, depending on whether there are obstacles between the sensor and the station or not.
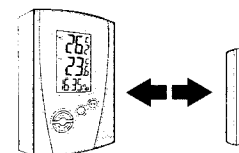
8- Check that the outdoor temperature is displayed and that the transmission signal shows that temperature data is being transmitted.
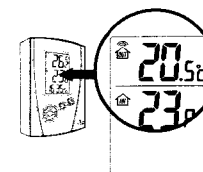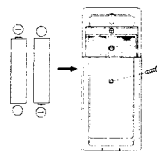
Batteries

Installing the batteries in the remote sensor
The remote sensor runs on two AA (LR6) 1.5 V batteries. To install them:
. Unscrew the cover of the battery compartment.
. Insert the batteries strictly according to the polarities as indicated in the battery compartment.
. Put the battery compartment cover back on and reinsert the screws.

Once the batteries have been inserted in the sensor, data transmission will occur in intervals of 78 seconds.

Installing the batteries in the main unit.
Once you have installed the batteries in the remote sensor, you can install the two AA (LR6) batteries in the main unit. To do so :
. Gently remove the battery compartment cover.
. Insert the batteries strictly according to the polarities as indicated in the battery compartment.
. Put the battery compartment cover back on.
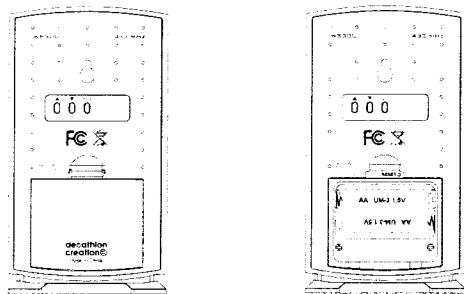
Note: For both the remote sensor and the main unit, change the batteries as soon as they are low. The low battery [⊡] indicator is in the indoor/outdoor temperature window and is displayed as soon as the batteries are low.

Do not throw the batteries away, as this may be hazardous. Protect the environment by depositing used batteries in an authorized collection area for recycling.
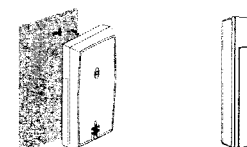
Installation
. Mounting the main unit
This unit can be mounted on a wall using the screw head hole (K). It can also be placed on a flat surface using the table stand.
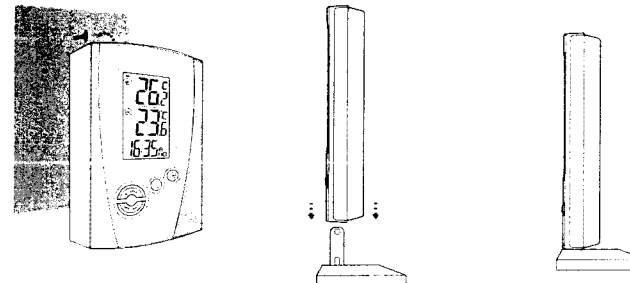
. Mounting the remote sensor
The remote sensor is fitted with a two-screw wall mount that can be screwed onto the wall. It can also be placed on a horizontal surface with the built-in table stand.

⚠ **IMPORTANT :**
The sensor and the station must be placed in an upright position for the signal to transmit properly! The wireless sensor is resistant to splashing but it should never be immersed in water or exposed to heavy rain. Avoid prolonged exposure to direct sunlight and wind.

Transmission distances

⚠ **IMPORTANT :**
The maximum transmission distances of the signal vary according to the surrounding materials and electromagnetic interference. The table below describes typical distances in different situations:

Outdoors, no obstacles	20-30m
Small obstacles (window, plywood door, wooden table, couch)	15-20m
Electric devices (stereo system, TV, computer, washing machine, microwave)	10-15m
Radio devices, satellite antenna, cell phone	10-15 m with risks of random disconnections
Brick walls	10-15 meters
Reinforced concrete wall, several walls	5 m or no transmission

NAVIGATION SYSTEM

The device features 3 display lines for easy reading.
Each line has a precise function:
- Outdoor temperature
- Indoor temperature
- time, alarm, calendar.

EXPLANATION OF EACH DISPLAY

Outdoor temperature (remote sensor)

This window displays the temperature in Celsius (¡C) or Fahrenheit (¡F) degrees as measured by the wireless sensor transmitting data to the main unit.
Use the memory function (MIN/MAX) to display in this window the minimum and maximum temperatures, which have been saved automatically. The respective indicators MAX and MIN are displayed.
The icon on the right-hand side indicates the status of the main unit's reception of data transmitted by the remote sensor. Three shapes may be displayed:

The device is in search mode	. ⏾
The temperature readings are being saved	. ⏾ ⏾ ⏾
No signal	•

A low battery indicator [⏚] alerts you when the batteries of the remote sensor are low.

Press on the ¡C/¡F button to change the units of the temperature display

Measuring range of the outdoor temperature:-20.0¡C to +60.0¡C
Measuring accuracy +/- 0.5¡C
Transmission frequency: 433 MHz
Transmitting distance: 30 meters maximum
Interval between 2 outdoor temperature measurements: around 78 seconds

Indoor temperature (at the station)

This window displays the indoor temperature in Celsius (¡C) or in Fahrenheit (¡F), as measured by the main unit.
Use the memory function (MIN/MAX) to display in this window the minimum and maximum temperatures, which have been saved automatically. The respective MAX and MIN indicators are displayed.
A low battery indicator [⏚] alerts you when the batteries of the main unit are low.

Measuring range of the indoor temperature: -5.0¡C to +50.0¡C
Measuring accuracy +/- 0.5¡C

Displaying memorized temperatures

The maximum and minimum temperatures are automatically saved as soon as they are measured. To display the maximum temperature, press once on the MIN/MAX button. Press on the Min/Max button again to display the minimum temperature. Repeat the same procedure to return to the current temperature display.
To erase the memory, press on the MIN/MAX button and hold it down for three seconds. The saved temperatures are erased, so if you press on the MIN/MAX button for 3 seconds, the maximum and minimum temperatures will be the same as the current temperature.

Displaying the time, the date and the alarm
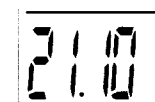
This device features two different display modes for this window:
Each time you press on the MODE button, you switch to the next display in the order indicated above.

1 - Mode: Hour Ð minute Ð day
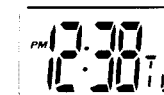
2 - Mode: Date

The ALARM ON [⏚] icon indicates if the alarms is on.

. Setting the time:
Setting the time and the calendar
1. To set the time manually, press the {F0}MODE button F1} in for three seconds. The 12 hour or 24 hour mode will flash.
2. Press on the [▼] or [▲] button to change the time readout. Keep pressing down on the relevant button to fast forward or reverse the time readout.
3. Press on the MODE button to confirm. The hour numbers will flash. Press on [▼] or [▲] again to change the hour value.
4. Repeat the same procedure to set the minutes, the date, the month, the year and the day display language. For the display language, you can select English (E), German (D), French (F) or Italian (I).
5. The days of the week are displayed in the usual order: Monday through Sunday, in the previously selected language.

If you do not want to change any of the items, simply press on the MODE button to go to the next item.
When all the items have been set, press on the MODE button to exit and the display will return to the last display mode you selected.

. Setting the alarm
To set the alarms:
1. Press on the ALARM button. The time of the last alarm to be set will be displayed. If you have not set the alarm before, the time displayed will be 0 : 00. If the alarm is not on, - : -- will be displayed. In this case press on ALARM to turn the alarm on; the last set time will be displayed.
2. Press on the ALARM button for three seconds and the hour numbers will flash.
3. Enter the new time using the [down arrow] or [up arrow] button.
4. Press on the ALARM button. The minute numbers will flash.
5. Enter the minutes using the [▼] or [▲] button.
6. Press on the ALARM button to exit. The [⏚] icon of the selected alarm is displayed, indicating that the alarm is now on.
7. You can turn the alarm on or off by pressing several times on the AL button
8. To display the maximum temperature, press on MODE to return to the time display.

The alarm will go off at the set time. If you do not turn it off, the alarm will stop automatically after a total of two minutes.

To stop the alarm, you can press on any button.

SPECIFICATIONS ÐTROUBLESHOOTING TABLE

Troubleshooting

This troubleshooting table will guide you in solving minor incidents. Use it to analyze any problems you may encounter. Carry out the problem-solving procedures in numerical order

	Incident	Solution
1	The station is not displaying the temperature measured by the sensor. ---.- is displayed in the "outdoor temperature" field	1.Connection lost: the signal sent by the sensor is not being received by the station. Force the connection to reset by pressing simultaneously on **SEARCH**. The symbol above the **OUT** symbol flashes while the connection is being made. 2.The sensor has fallen or is lying down. The sensor's antenna will only work properly if it is in an upright position. Use the stand provided to ensure that the sensor is in the right position. 3. The sensor and the station are too far apart or transmission is hindered by objects that create interference (concrete walls, antennas etc.): Bring the sensor closer or eliminate the interference, then reset transmission (**SEARCH**). 4. The sensor's batteries are low, so the sensor does not have enough power for data transmission. Change the sensor's batteries, then reset transmission (**SEARCH**).
2	The temperature is displayed, but is very different from the expected value.	1. The MIN/MAX mode has been displayed by mistake. Press repeatedly on MIN/MAX to display the current temperature. 2. The sensor is exposed to a local microclimate: a source of heat (e.g. heating pipe, chimney etc.) or cold (draft) is affecting the temperature measurement very locally. move the sensor away from this source of temperature interference.
3	The time indicated is different from the actual time	1. Set the time manually as specified in the relevant procedure

⚠ **IMPORTANT!!!**
For any other problems than those described above, or for any problems you cannot solve alone, place the station and the sensor on a table and carry out STEP by STEP the initializing procedure as described in the Gettin' Started section.

The order in which the steps are carried out is **VERY IMPORTANT.**

Resetting/RESET
Use the G button if the device is not working satisfactorily or if it is malfunctioning. Use a stylus to press the button in. All the settings return to their initial default values. Now carry out the manual setting and display customization procedures again.

Care and maintenance
A few tips for the care and maintenance of the thermometer station:
1. Never immerse this device. If the unit comes into contact with water, dry it immediately with a soft, lint-free cloth.
2. Never use an abrasive or corrosive cleaner on this device. Abrasive cleaners may scratch the plastic parts and corrode the electronic circuit.
3. Do not expose this unit to excessive pressure, shocks, dust, extreme temperatures or damp. Such treatment would cause malfunctioning, reduce the lifetime of the electronic circuit, damage the batteries and deform the product.
4. Do not dismantle the device and do not touch the internal components. Doing so would nullify the warranty and could damage components that cannot be repaired by the user.
5. Under the environment with radio frequency interference, the sample may malfunction and require user to reset the sample.
6. Under the environment with electrostatic discharge, the captioned model could not maintain communication link and require user to reset the sample.
7. Only use brand new batteries. Do not mix brand new batteries with old batteries as the old ones may leak.

REGULATIONS

R&TTE
May be used in EU countries.
Complies with European directive 99/5/EC

FCC
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 to this unit 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.
- 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.

⚠ **IMPORTANT:** Any changes or modifications not explicitly approved by Dżcathlon ma y nullify the authorization granted to the user to utilize the equipment.

CONTACT
As we strive to continually improve the products we develop, we are interested in your feedback regarding the quality, the functionality and the usage of our products.

- In France, please call the customer service center at: 0810 08 08 08 (local call rate)
- For any other country, you can leave a message under the relevant heading on our website **www.decathlon.com**
We promise to answer you promptly.

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