Station Météo
Weather Station
WS 500

geonaute

2 GARANTIE 2 ANS EN USAGE NORMAL - GUARANTEE 2 YEARS UNDER STANDARD CONDITIONS OF USE - GARANTÍA 2 AÑOS EN CONDICIONES NORMALES DE USO - GARANZIA 2 ANNI IN CONDIZIONI D'USO NORMALI - GARANTIE 2 JAHRE BEI NORMALEM GEBRAUCH - WAARBORG 2 JAAR BIG NORMAAL GEBRUIK - GARANTIDO 2 ANOS EM UTILIZAÇÃO NORMAL - GWARANCJA 2 LATA, PRZY NORMALNYM UZYTKOWANIU - 2 ÉVRE GARANTÁLVA NORMÁLIS HASZNÁLAT MELLETT - гарантия 2 года в условиях нормальной эксплуатации - 正常使用保修2年

B E B A T B Batterij vrijgesteld van milieutaks. Inleveren bij een Bebat-inzamelpunt. Pile exonérée d'écotaxe. A retourner à un point de collecte Bebat.

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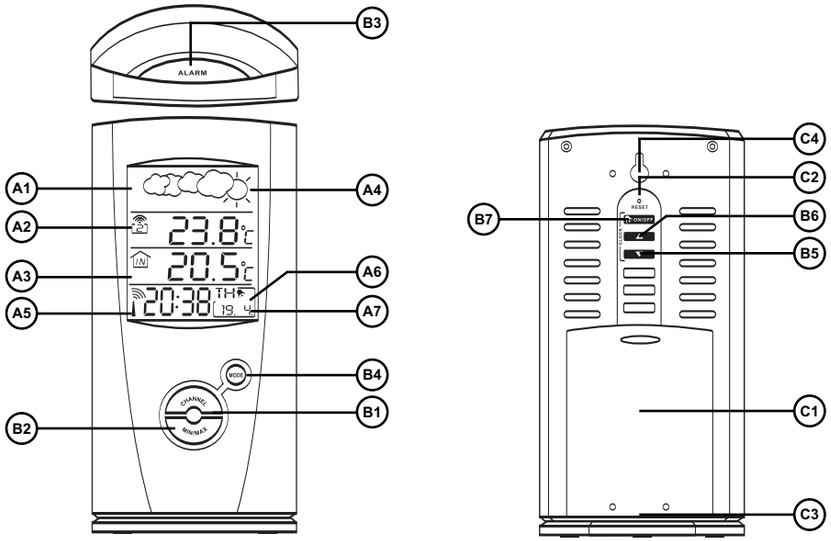


A1	Weather forecasts	A5	Radio control indicator	C1	Battery compartment
A2	Channel number	A6	Alarm indicator	C2	Reset button
A3	Indoor temperature	A7	Time – date - alarm	C3	Stand
A4	Outdoor temperature			C4	Wall mount

B1 Channel button [CHANNEL]

Use this button to select the channel of the remote sensor. Each time this button is pressed, window **A.2** in the main unit displays the channel number and the outdoor temperature measured by the corresponding remote sensor.

B2 Memory button [MIN/MAX]

Use this button to display in windows **A.2** and **A.3** the minimum, maximum or current temperatures recorded by the main unit and the remote sensor.

B3 Alarm button [ALARM]

Use this button to change the time display mode **A.7** and change the time and date settings (see section on setting the time and the date)..

B4 Mode button [MODE]

Use this button to change the time display mode **A.7** and change the time and date settings (see section on setting the time and the date).

B5 and B6 UP [up arrow] and DOWN [down arrow] buttons

Use these buttons to increase or decrease the displayed value when changing a setting.

B7 Alarm button [ON/OFF]

This button activates and deactivates the alarm.

GB

We thank you for purchasing the Géonaute WS500 weather station. This device indicates the weather conditions for the next 12-24 hours by measuring trends in atmospheric pressure. It also lets you see at a glance the indoor temperature, the outdoor temperature (measured by a wireless sensor) and the time and date.

Thanks to the weather information provided by this station, you can anticipate changes in the weather, and bring the right gear along to your outdoor sports activities.

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 or 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/PRECAUTIONS FOR USE

Description of normal operating conditions : The weather station is designed to measure the indoor temperature (at the receiver) and outdoor temperature (at the wireless sensor). It displays a local weather forecast, calculated from barometric measurements, for the upcoming 12 to 24 hours.
It gives the time in 2 time zones and features a daily 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 Décathlon 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°C), the sensor may stop transmitting a signal although it was transmitting atsummer temperatures (20°C). 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.**

When no longer needed, dispose of the batteries, as well as the electronic product, at a recycling collection location.
Recycling electronic waste protects the environment and your health.

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.

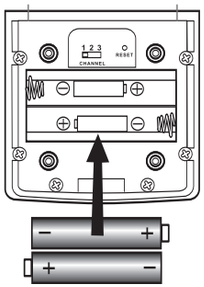
Preparation

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.

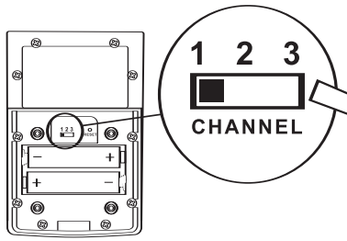
1. 4 new LR6-AA 1.5 V batteries are included for use with the station. The batteries are not installed in the device.
2. 2 new LR3-AAA 1.5 V batteries are included for use with the sensor. The batteries are not installed in the device.
3. 1 cross-tip screwdriver for the screws of the sensor (precision model) (not included in this package).
4. The WS500 station, with battery cover open.
5. ALL the sensors (3 max), with battery covers open and table stands.
6. A fine tip to press on the reset button of the sensor (not included in this package).

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.*

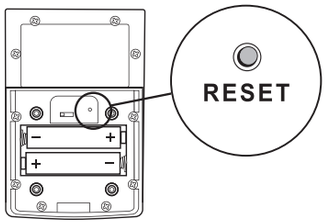


2 - *Choose a communication channel for the first sensor by flipping the* **CHANNEL** *switch at the rear of the sensor, inside of the battery cover. Write it down in the following table :*

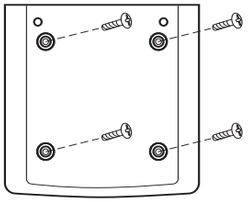


Channel	Sensor number	Description of the sensor's position
E.g. : 1	1	attic
1		
2		
3		

3 - *Press the reset button of the sensor.*



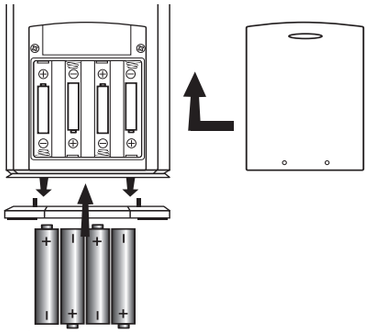
4 - *Carefully reinsert the seal of the sensor, taking care not to damage it.*
Next, close the sensor's battery cover with the 4 Phillips head screws.



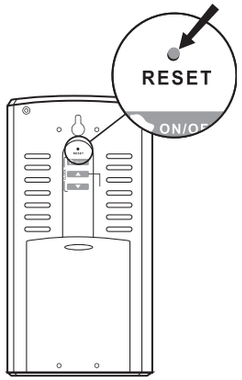
5 - *Position the sensor* in an upright position *on the table, using the table stand provided.*

6 - *Optional: Installing additional sensors.*
Take a second sensor and repeat steps 1 to 4 in the exact same order, choosing a free channel (**CHANNEL**) *for each additional sensor (Step 2). Fill in the information on the table in step 2 to identify each sensor and its channel number.*

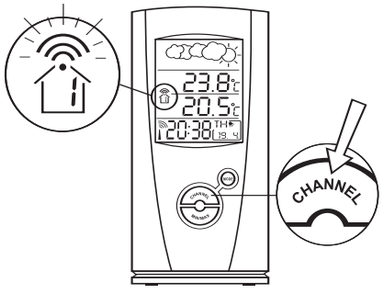
7 - *Insert the batteries in the station according to the indicated polarities. Close the cover and put the base back.*
Verify that the station is displaying something. If it is not, check the position of the batteries.



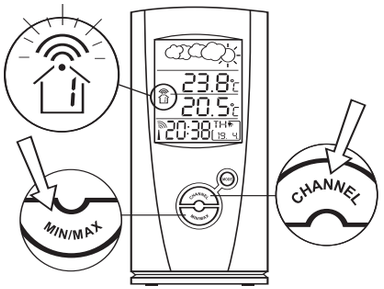
8 - *Press on the* **RESET** *button of the station to reset the measurements.*



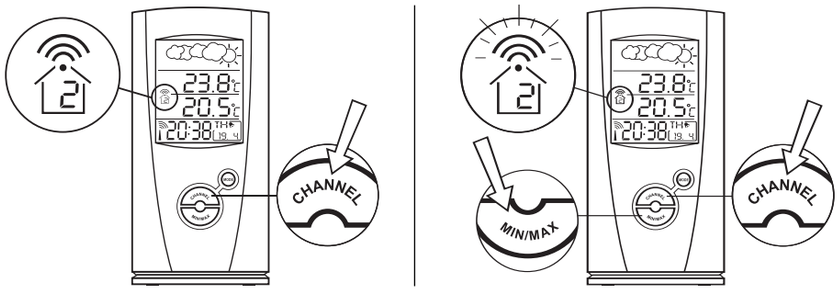
9 - *Display channel 1 in the outdoor temperature field, by pressing repeatedly on the* **CHANNEL** *button.*



10 - *Press simultaneously on* **MIN/MAX** and **CHANNEL** *to initiate transmission. The symbol above number 1 starts flashing.*



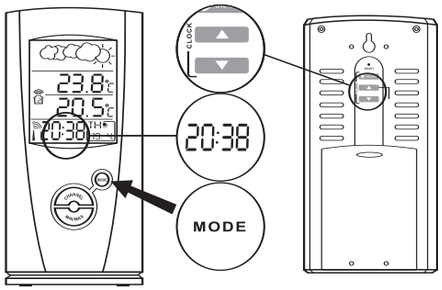
11 - *Display channel 2 by pressing on* **CHANNEL**. *Initialize transmission by pressing simultaneously on* **MIN/MAX** *and* **CHANNEL**. *Repeat the operation for each channel utilized by the sensors, according to the information filled in the table in step 2.*



Setting the time: the station automatically sets the time by connecting with the atomic clock of Frankfurt (Germany). The **"antenna"** *icon in the lower left-hand corner of the screen flashes while this connection is being made. When the connection has been made, the icon is displayed constantly with a symbol indicating the status of reception of the time signal.*

If after a few minutes the time has not set automatically, or if the time indicated does not correspond to your time zone, set the time manually, following the procedure indicated in the corresponding section of the instructions (p 11/3-2).

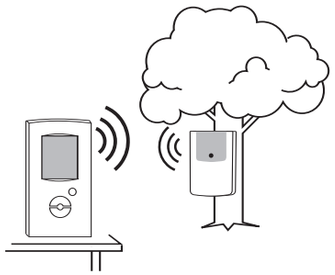
12 - *To enter setting mode, press on the* **MODE** *button for 3 seconds. Change the parameters with the arrows located on the back of the device and switch form one parameter to another by pressing on* **MODE** *(see relevant section).*



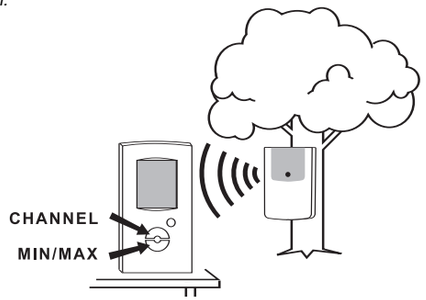
13 - *Weather condition settings: the weather condition display does not require any adjustments. It starts with "cloudy weather" and gradually adjusts within 24 hours.*

However, if after 24 hours there is a large discrepancy between local weather and the weather displayed on the station, you can force the station to initialize by pressing with a fine tip on the station's **RESET** *button. In this case, steps 9 to 12 have to be redone.*

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.



14 - *Scroll through the various outdoor temperature channels by pressing on the* "**CHANNEL**" *button and verify that the temperature measured by each of the sensors is displayed on the screen. If it is not, press simultaneously on* **MIN/MAX** *and* **CHANNEL** *to initialize data transmission. If no temperature is displayed, start over, first bringing the unrecognized sensor closer to the station.*

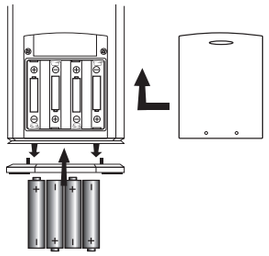


Batteries

Installing the batteries in the remote sensor and selecting the channel
The remote sensor runs on two AAA (LR3) 1.5 V batteries. To install them and select the channel:

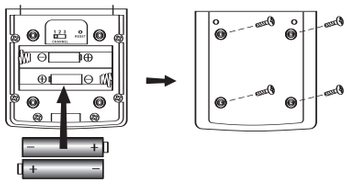
1. Unscrew the cover of the battery compartment.
2. Select the channel number using the **CHANNEL** switch. If you are simply changing the batteries, do not change the position of the **CHANNEL** switch. Note that once a channel has been assigned to a sensor, you can only change it by removing the batteries or resetting the unit.
3. Insert the batteries strictly according to the polarities as indicated in the battery compartment.
4. 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 thirty-second intervals.



Installing the batteries in the main unit.
Once you have installed the batteries in the remote sensor, you can install the four AA (LR6) 1.5 V batteries in the main unit. To do so :

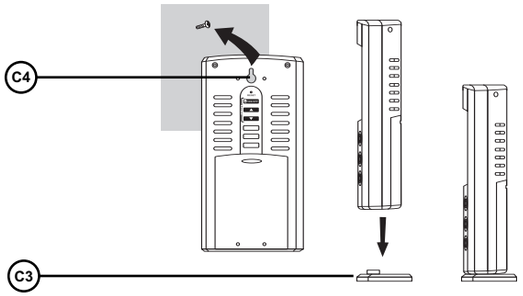
1. Gently remove the battery compartment cover.
2. Insert the batteries strictly according to the polarities as indicated in the battery compartment.
3. Put the battery compartment cover back on.



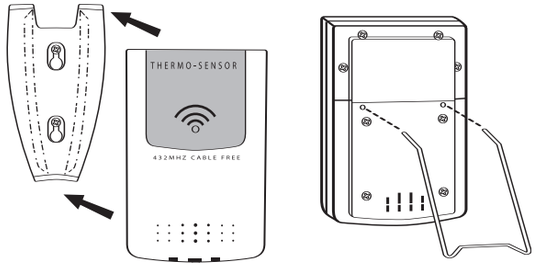
Note : For both the remote sensor and the main unit, change the batteries as soon as they are low. The low battery indicator [ ] is in the indoor/outdoor temperature window and is displayed as soon as the batteries are low.

Installation

Mounting the main unit
This unit can be mounted on a wall using the screw head hole (**C4**). It can also be placed on a flat surface using the table stand (**C3**).



Mounting the remote sensor
The remote sensor is fitted with a two-screw wall mount. It can also be placed on a horizontal surface with the folding table stand.



⚠ **IMPORTANT:**
The sensor and the station must be placed in upright positions for the signal to be transmitted properly !

Transmission distance

⚠ **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	20-25 m
Small obstacles (window, plywood door, wooden table, couch)	15-20 m
Electric devices (stereo system, TV, computer, washing machine, microwave)	10-15 m
Radio devices, satellite antenna, cell phone	10-15 m with risks of random disconnections
Brick walls	10-15 m
Reinforced concrete wall, several walls	5 m or no transmission

NAVIGATION SYSTEM

This device features 4 display lines for easy reading.
Each line has a precise function:

- weather forecasts,
- outdoor temperatures
- indoor temperature
- time, alarm, calendar.

EXPLANATION OF EACH DISPLAY

1 - Displays weather forecasts

This device is capable of detecting changes in local atmospheric pressure.
Based on the gathered data, this device can forecast local weather for the **next 12 to 24 hours.**
The accuracy of the weather forecasts is **70% to 75%.**

Indications displayed on the unit				
Display	Sunny	Cloudy	slightly overcast	Rainy

⚠ **IMPORTANT:**
The weather indicated does not necessarily reflect the current situation. Rather, it indicates the situation for the next 12 to 24 hours. It is a **FORECAST**. At night, the "sunny" icon means clear weather.

2 - Displays the temperatures

2-1 Outdoor temperatures (remote sensors)

This window displays the temperature in Celsius (°C) as measured by the wireless sensors transmitting data to the main unit.
On the left side of the window, the number 1, 2 or 3 specifies the communication channel assigned to each remote sensor displayed (see the first use section, selecting the channel).
Use the memory function 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 left-hand side indicates the status of the main unit's reception of data transmitted by the remote sensor.
There are three possible displays :

The unit is searching	
The temperature values are recording in good conditions	
Absent signal	

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

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 30 seconds

2-2 Indoor temperature (at the station)

This window displays the indoor temperature in Celsius (°C) as measured by the main unit.
Use the memory function to display in this window the minimum and maximum temperatures, which have been saved automatically. The respective MAX and MIN indicators are displayed.

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

2-3 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, the maximum and minimum temperatures will be the same as the current temperature.

3 - Displaying the time, the date and the alarm

This device features four 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.

Mode 1 : Hour – minutes – seconds (local time)
Day - month (local date)

Mode 2 : Hour – minutes – day of the week (local date)
Day – month (local date)

Mode 3 : Hour – minutes – day of the week (local date)
Hour – minutes (alternative time zone)

Mode 4 : Hour – minutes– day of the week (of the second zone)
Day – month (alternative time zone)

The **ALARM ON** icon indicates if alarms 1 and 2 are on.

3-1 Setting the time

This device is designed to automatically synchronize its clock and calendar when it is within range of the signal **DCF77** in Frankfurt.
On the left-hand side, this window displays the radio frequency status indicator.

When the unit receives the radio signal, the **RADIO RECEPTION** sign starts flashing. Total reception takes around ten minutes, depending on the strength of the radio signal. When reception is complete, the **RADIO RECEPTION** sign stops flashing. The reception strength indicator remains on until a new synchronizing cycle begins. To improve reception, move the unit away from metal objects and electric items to reduce interference.
Deactivating the radio-control setting

	Strong
	Weak
	No reception
	Reception

If you want to deactivate the clock's automatic synchronizing feature, press on the [down arrow] button for three seconds. The radio reception sign disappears. The unit no longer responds to the radio signals **DCF77**.
If you want to reactivate the clock's automatic synchronizing feature, press on the [up arrow] button for three seconds. The radio reception sign starts flashing to automatically initiate reception.

If the station is not less than 1,000 km from Frankfurt (Germany), e.g. in the **USA and in all the countries of North and South America, in China and all the Asian countries** or in places where surrounding conditions prevent proper reception of the signal, set **the clock and the calendar manually** as explained in the following procedure.

3-2 Setting the time and the calendar manually

To set the time manually in a 24-h display, press the **MODE** button in for three seconds. The hour numbers will flash.
Press on the [up arrow] or [down arrow] button to increase or decrease the time readout. Keep pressing down on either button to fast forward or reverse the time readout.
Press on the **MODE** button to confirm. The minute numbers will flash.
Repeat the same procedure to set the minutes, the date, the month, the language display, the day of the week and to switch to the alternative time zone.
For the language display, you can select English (**E**), German (**D**), French (**F**) or Italian (**I**).
The days of the week are displayed in the usual order: Monday through Sunday, in the previously selected language.

For the alternative time zone, indicated by the **ZONE** icon, enter the time difference using the [up arrow] or [down arrow] button. The unit calculates the time in this zone depending on the time difference.

⚠ **IMPORTANT :**
The alternative time zone should be used if you live in a country that receives the Frankfurt signal but has a time difference with Germany. In this case, set the display by pressing repeatedly on **MODE** to display the alternative time zone and set the relevant time difference.(MODE 4)

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.

3-3 Setting the alarm

This device features two different alarms: **ALARM1** and **ALARM2**. You can use them together or separately.
To set the alarms :

1. Press on the **ALARM** button once to select **ALARM1** or twice to select **ALARM2**. The last alarm time set will be displayed. If you have not set the alarm yet, the time displayed will be 0: 00.
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 [down arrow] or [up arrow] button.
6. Press on the **ALARM** button to exit. The [alarm] icon of the selected alarm is displayed, indicating that the alarm is now on. You can also turn the alarm on by pressing on the **ON/OFF** button on the back of the device.

The alarm will go off at the set time, getting louder four times, in twenty-second intervals. If you do not turn it off, the alarm will stop automatically after a total of two minutes.
If the alarm is stopped when the first alarm rings, the alarm is automatically deactivated.

To stop the alarm, you can either press on the **ALARM** button or on the **ON/OFF** button. Pressing on the **ALARM** button stops the alarm, but leaves the alarm on so that it will go off again the next day. However, if you press on the **ON/OFF** button, the alarm stops and is deactivated.

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 "	1.1 - **Connection lost : the signal sent by the sensor is not being received by the station.** Force the connection to reset by pressing simultaneously on **MIN/MAX** and **CHANNEL**. The symbol above the channel number flashes while the connection is being made.
	1.2 - **The channel displayed is not the right one :** Check the parameters of the sensor (position of the **CHANNEL** switch inside of the sensor's battery cover), verify that the number of the channel displayed on the station matches the number of the switch in the sensor. If this is not the case, press on the **CHANNEL** button of the station to scroll through the channels until you find the right number.
	1.3 - **The sensor has fallen or is lying down.** The sensor's antenna will only work properly if the sensor is in an upright position. Use the stand provided to ensure that the sensor is in the right position.
	1.4 - **The sensor and the station are too far apart or transmission is hindered by interference-generating objects (concrete walls, antennas etc.)** Bring the sensor closer or eliminate the interference, then reset transmission (**MIN/MAX + CHANNEL**).
	1.5 - **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 (**MIN/MAX + CHANNEL**).
2 — The temperature is displayed, but is very different from the expected value.	2.1 - **The MIN/MAX mode has been displayed by mistake.** Press repeatedly on **MIN/MAX** to display the current temperature.
	2.2 - **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 displayed weather conditions do not correspond to reality.	3.1 - **The calculation algorithm has not had enough time to calculate the forecasts.** Wait at least 24 hours to obtain a reliable forecast.
	3.2 - **You have changed the altitude of the station.** Wait 24 hours. If the forecasts are still not reliable then, press on **RESET** and wait another 24 hours.
	3.3 - **In any other case:** Press on **RESET** and wait 24 hours.
4 — The time indicated is different from the actual time.	4.1 - **The time displayed is the time of the second time zone ; verify that the "ZONE" icon is not displayed:** As needed, press several times on **MODE** to display local time.
	4.2 - **You are not in the same time zone as FRANKFURT** Program the time difference with Frankfurt, then display the time of the time zone as the local time ; see the relevant section for programming instructions.
	4.3 - **You are not within range of the antenna in Frankfurt (around 1,000 km). The antenna icon, in the bottom left-hand corner of the screen, is not displayed.**

⚠ **IMPORTANT :**

For any other problems than those described above, or for any problems you cannot solve alone, place the station and the sensors on a table and carry out STEP by STEP the initializing procedure as described in the Gettin' Started section. The order of the steps is VERY IMPORTANT.

Resetting/RESET

Use this button **C.2** 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 weather 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.

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 DŽcathlon ma y nullifythe 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 080808** (local call rate)
- For any other country, please leave a message under the relevant heading on our website: **www.decathlon.com**

We promise to answer you promptly.

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