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# RADIO-CONTROLLED WEATHER STATION & VENTILATION MONITOR

## Introduction

Congratulations on the purchase of your new weather station. You have chosen a high quality product. The instruction manual is part of the product- it contains important information about safety, use and disposal. Read the manual with all usage and safety notes before using the weather station. Only use the weather station in the intended way and for the intended applications. If the weather station is given to someone else, include all documentation with the weather station. Please keep the packaging and the instruction manual for future reference.

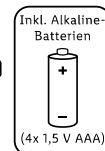
## Intended use

This electronic appliance is intended for time display and the described additional features. Any other use or modification of the electronic appliance does not comply with the intended uses. The manufacturer is not liable for damages caused by improper use or misuse. The device is not intended for commercial use.

## Scope of delivery

**Please note:** Please check the scope of delivery after purchase. Make sure that all parts are present and not defective. If the delivery is incomplete and/or parts are damaged, do not use the radio controlled weather station. Contact the service department (see "Warranty case processing").

- 1 x Weather station
- 2 x Alkaline batteries 1.5 V AAA LR03
- 1 x Radio outdoor sensor
- 2 x Alkaline batteries 1.5 V AAA LR03
- 2 x Anchor/dowel
- 2 x Screws
- 1 x Instruction manual



## Specifications

### Weather station

- Touch-screen operation
- Measuring range/temperature: -10 - 50 °C
- Temperature display/tolerance:  
+/- 1 °C (0 - 50 °C); +/- 1,5 °C (-10 - 0 °C)
- Measuring range/humidity: 20 % - 95 %
- Humidity display/tolerance: +/- 5 %
- Dimensions: approx. 15,0 x 9,6 x 2,3 cm
- Weight: approx. 160 g (exkl. Batterie)
- Batteries: 2 x 1.5 V AAA R03/LR03 (UM-4)



## Radio outdoor sensor

- Measuring range/temperature: -40 - 60 °C
- Temperature display/tolerance:  
+/- 1 °C (0 - 50 °C); +/- 2 °C (-40 - 0 °C, 50 - 60 °C)
- Measuring range/humidity: 20 % - 95 %
- Humidity display/tolerance: +/- 5 %
- Range: max. 50 m
- Frequency: 433.92MHz
- Transmission power: 0.024 W
- Protection offered by the case (radio outdoor sensor):  
IPX4 (Water resistant according to IEC norm 60529)
- Dimensions: approx. 5,0 x 9,7 x 2,9 cm
- Weight: approx. 45 g (excl. batteries)
- Batteries: 2 x 1,5 V AAA R03/LR03 (UM-4)



 - Symbol for direct voltage

## Important safety information

### Important safety information for users



#### **WARNING! RISK OF INJURY!**

This device may be used by persons (including **children** over 8 years of age) with reduced physical, sensory or mental abilities or lack of experience and knowledge, if they are supervised or instructed regarding the safe use of the device and understand the dangers that may arise. **Children** may not play with the device. Cleaning and user maintenance of the device may not be performed by children without supervision. Keep packaging films out of the hands of **children**. There is a danger of suffocation.

### Important safety information for the batteries



#### **WARNING! HEALTH HAZARD! RISK OF EXPLOSION!**

Keep new and old batteries/rechargeable batteries out of reach of **small children**. If a battery/rechargeable battery is swallowed, medical help must be obtained immediately.

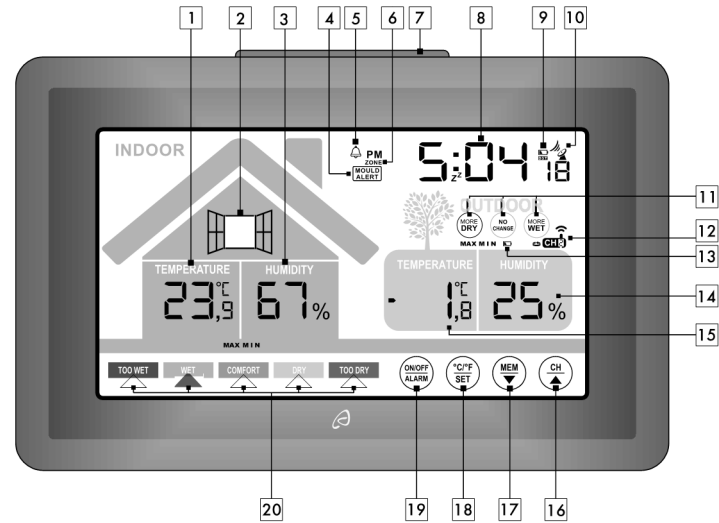
The batteries/rechargeable batteries must always be inserted with the correct polarity. Clean the battery and device contacts beforehand if necessary. Do not attempt to recharge, short-circuit, or open the batteries/rechargeable batteries. Never heat the batteries/rechargeable batteries to recharge them. Do not expose the batteries to excessive heat such as sunshine, fire or the like. There is an increased risk of leakage! Never throw batteries/rechargeable batteries into fire, as they can explode.



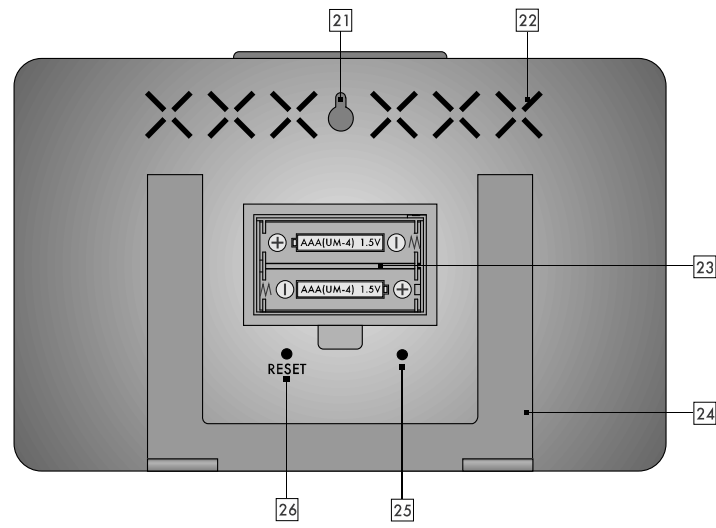
Improper use of the batteries/rechargeable batteries poses a risk of explosion and leakage of the battery fluid.  
 If the batteries/rechargeable batteries should leak, avoid contact with skin, eyes and mucous membranes. Use gloves. In the event of contact with battery fluid, immediately rinse the affected areas with plenty of clean water and consult a doctor immediately. Remove exhausted batteries/rechargeable batteries from the device immediately, there is an increased risk of leakage.

## Display and controls

### Radio-controlled weather station

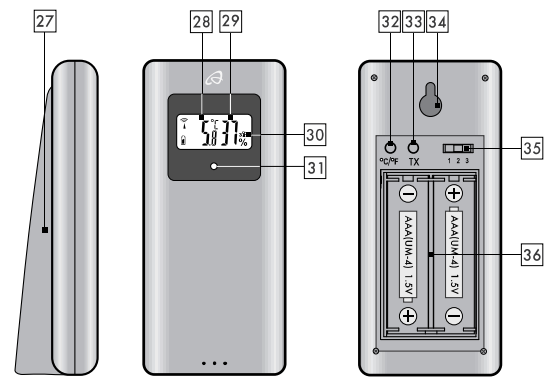


1	Indoor temperature	2	Ventilation recommendation
3	Indoor humidity	4	Mould warning
5	Alarm symbol	6	Time zone
7	SNOOZE/LIGHT-button	8	Time
9	Battery low indicator for station	10	Radio control symbol
11	Ventilation rating	12	Radio outdoor sensor channel
13	Battery low indicator for radio outdoor sensor	14	Radio outdoor sensor humidity
15	Radio outdoor sensor temperature	16	CH- /▲ up-button
17	MEM- /▼ down -button	18	°C/°F/SET-button
19	ON/OFF/ALARM-button	20	Comfort display



21	Hole for wall mounting	22	Ventilation slots
23	Battery compartment	24	Folding Stand
25	Buzzer	26	RESET-button

**Radio outdoor sensor**



27	Stand	28	Temperature
29	Humidity	30	Set channel
31	Operation-LED	32	°C/°F-button
33	TX-button	34	Hole for wall mounting
35	Channel selection switch	36	Battery compartment

**Securely placing or mounting the weather station**

The weather station with radio outdoor sensor is not designed for operation in rooms with high humidity (i. e. bathroom). not designed for use in rooms with high humidity (e.g. bathrooms). Use the supplied dowel and screw for wall mounting. Before mounting to a wall, make sure that there are no gas, water or electricity lines at the drilling

location. Pay attention to the condition of the wall. The enclosed mounting material is not suitable for all types of walls. The manufacturer is not liable for any damage caused by improper mounting.

Protect sensitive surfaces before setup, otherwise scratches may occur.

Make sure that:

- sufficient ventilation is always guaranteed (don't place the device on shelves or where curtains or furniture block the ventilation slots **22**, and ensure that there are at least 10 cm of space on all sides);
- the device isn't placed on a thick carpet or bed during operation, no direct heat sources (i.e. radiators) influence the device;
- no direct sunlight reaches the device;
- contact with splashing or dripping water must be avoided (don't place any items filled with liquids, i.e. vases, onto or next to the device);
- the device doesn't stand near magnetic fields (i.e. speakers);
- no foreign objects or dust penetrate the housing;
- candles and other open flames must be kept away from this product at all times to prevent the spread of fire.

### **Securely placing or mounting the radio outdoor sensor**

Place the sensor in a location where it is protected from the weather, for example under an awning or carport. The sensor has an IPX4 rating and is therefore protected from water splashes. not designed for use in rooms with high humidity (e.g. bathrooms). Use the supplied dowel and screw for wall mounting. Before mounting to a wall, make sure that there are no gas, water or electricity lines at the drilling location. Pay attention to the condition of the wall. The enclosed mounting material is not suitable for all types of walls. The manufacturer is not liable for any damage caused by improper mounting.

Protect sensitive surfaces before setup, otherwise scratches may occur.

Make sure that:

- the sensor hangs or stands upright;
- sufficient ventilation is always guaranteed (don't place the device on shelves or where curtains or furniture block the ventilation holes, and ensure that there are at least 10 cm of space on all sides);
- no direct sunlight reaches the device;
- the device doesn't stand near magnetic fields (i.e. speakers);
- no foreign objects or dust penetrate the housing;
- sensitive surfaces are protected before placement.

## Setup



Insert the batteries into the battery compartment of the radio outdoor sensor **36** and only then insert batteries into the battery compartment of the radio-controlled weather station **23**.

Remove the protective film from the display.

Open the battery compartment of the radio outdoor sensor **36** and insert the included batteries in **the correct polarity**.



The operation LED **31** lights up briefly and the temperature is displayed.




Close the battery compartment.

Open the battery compartment of the radio-controlled weather station **23** and insert the included batteries in the **correct polarity**.





Close the battery compartment.

The display will turn on for 5 seconds and a tone will sound. The radio-controlled weather station will measure the indoor temperature and indoor humidity. Then the radio-controlled weather station will begin to receive the temperature and humidity from the radio outdoor sensor.

The radio waves  **12** will blink. The process can take up to 3 minutes. If radio signal reception is not possible, the radio-controlled weather station will abort the process. The radio-controlled weather station now starts reception of the DCF77 radio control signal. The radio control symbol **10**  will blink on the display. This process can take from 3 to 10 minutes. During the reception process, all buttons except the **SNOOZE/LIGHT** button **7** will not function. If the reception of the radio time signal remains unsuccessful after 10 minutes, the radio control symbol **10**  will disappear from the display. Set the time manually (see basic settings). The radio-controlled weather station will start a new reception attempt at 04:00 o'clock and 05:00 o'clock and the time will be corrected automatically if reception is successful.

**Note:** Please do not move the radio-controlled weather station during the reception process.



If reception is successful, the radio control symbol **10**  will appear on the display permanently and the correct time will be set automatically. During daylight saving time, **DST** will appear on the display to the left of the radio control symbol **10** .

## Time zone adjustment

If you are in a country, in which the clock displays the wrong time even though it can receive the DCF77 time signal, please use the time zone adjustment to use your weather station in a time zone other than the standard time zone (UTC+1 = Central European Time). Set the difference in hours (- 01 for example) to the desired time zone.

Press and hold 1x long and 2x briefly the °C/°F-SET-button **18** in normal time display mode. The time zone will blink and can be set with




the **MEM-▼**-button **17** or the **CH-▲**-button **16**. Press the **°C/°F-SET**-button **18** to confirm your setting. The 12/24 hour time format will blink. Press the button again and the radio-controlled weather station will return to the normal setting. The radio-controlled weather station will show the changed time (for example: 1 hour less).

## Reception problems


The DCF77 radio signal is transmitted from a location near Frankfurt am Main and can be received within a radius of approximately 2000 km around Frankfurt am Main. However, there are some obstacles and sources of interference, which may substantially hinder reception. If your weather station does not correctly receive the DCF77 radio signal, please hang or place the weather station in a different location at your site. Please note that devices such as computers, telephones, radios and televisions may cause electromagnetic radiation which can interfere with the DCF77 signal reception. Other possible detriments to reception are: strong building insulation (metal building materials), nearby mountains or atmospheric interference. It may also be necessary to replace the batteries.


## Turning radio control signal reception on or off


Radio control reception can be turned off temporarily by pressing and holding the **MEM-▼**-button **17** 2 x for 3 seconds. 

The radio control symbol **10**  will disappear from the display.

The radio-controlled weather station will no longer receive the radio control signal but will restart reception every hour between 01:00 and 05:00 o'clock. Alternatively press and hold the **MEM-▼**-button **17** to restart DCF77 radio control signal reception.


To permanently turn off radio control signal reception, press and hold both the **MEM-▼**-button **17** and the **CH-▲**-button **16** together for 3 seconds. The radio control symbol **10**  will disappear. The radio-controlled weather station will now no longer receive the DCF77 radio control signal.

Press and hold the **MEM-▼**-button **17** and the **CH-▲**-button **16** together for 3 seconds and the radio wave symbol **10**  will disappear. The radio-controlled weather station can now receive the DCF77 signal again.

The radio-controlled weather station will attempt to receive the radio control signal hourly between 01:00 and 05:00 o'clock and correct the time automatically if reception is successful. If reception is successful, the radio control symbol **10**  will appear on the display permanently.

## Restarting radio control signal reception

Radio control signal reception can be restarted by pressing and holding the **MEM-▼**-button **17** for 3 seconds. The radio control

symbol **10**  will blink on the display. The radio-controlled weather station will now start the DCF77 signal reception attempt. This process can take from 3-10 minutes.

## Light

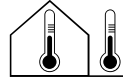
Press the SNOOZE/LIGHT button **7** to briefly activate the backlight.

## 12/24 hour time format

Press and hold the °C/°F-SET-button **18** 1x long and 3 x briefly in normal time display mode. The 12- or 24-hour time format will blink and can be set by pressing the MEM-▼-button **17** or the CH-▲-button **16**. In 12-hour mode the display will show AM before noon and PM after noon.

## Temperature

Press the °C/°F-SET-button **18** to show the temperature unit degrees Celsius (°C) or degrees Fahrenheit (°F).



Indoor / outdoor temperature

## Speed setting

Press and hold the MEM-▼-button **17** and the CH-▲-button **16** to use the speed setting feature when setting numerical values.

## Basic settings

The following basic settings are possible: Hours, minutes, time zone and 12/24 hour time format. Press and hold the °C/°F-SET-button **18** in normal time display mode for 3 seconds. The hours will blink and can be set by pressing the MEM-▼-button **17** or the CH-▲-button **16**. Press the °C/°F-SET-button **18** to confirm your setting. Set the minutes, time zone 00-(-) and 12/24 hour time format in the same way.



## Setting the alarm time



Press the ON/OFF-ALARM-button **19** 1x briefly while in normal time display mode to enter alarm mode. OFF and AL will appear on the display. Press and hold the ON/OFF-ALARM-button **19**. The hours will blink and can be set by pressing the MEM-▼-button **17** or the CH-▲-button **16**. Press the ON/OFF-ALARM-button **19** to confirm your setting. The minutes will blink and can be set in the same way. Press the ON/OFF-ALARM-button **19** to confirm your setting and return to normal time display mode.

## Activating and deactivating the alarm

Press the ON/OFF-ALARM-button **19** 1x briefly in normal time display mode to enter alarm mode. OFF and AL will appear on the display.

Press the **MEM-▼**-button **17** or the **CH-▲**-button **16**. The set alarm time and the alarm symbol  **5** will appear on the display. The alarm is now activated. Press the **MEM-▼**-button **17** or the **CH-▲**-button **16** again. OFF will appear on the display and the alarm symbol  **5** will disappear. The alarm is now deactivated.

Press the **ON/OFF-ALARM**-button **19** 2 x briefly to return to normal time display mode.


### Snooze (SNOOZE)

Press the **SNOOZE/LIGHT**-button **7** when the alarm sounds to temporarily deactivate the alarm. **Z<sup>Z</sup>** will blink on the display. After 5 minutes, the alarm will sound once again. Press any button other than the **SNOOZE/LIGHT**-button **7** to turn the alarm off.

### Radio outdoor sensor/channel setting



You may use up to 3 sensors with your radio-controlled weather station at the same time.

**Attention:** Insert the batteries into the battery compartment of the radio outdoor sensor **36** and only then insert batteries into the battery compartment of the radio-controlled weather station **23**.

Open the battery compartment of the radio outdoor sensor **36** and set the desired channel (1-3) using the channel selection switch **35**. Press and hold the **CH-▲**-button **16** on the radio-controlled weather station for 3 seconds until the radio waves  **12** for the radio outdoor sensor blink. The radio-controlled weather station will now attempt to receive the signal from the radio outdoor sensor. Press the **TX**-button **33** to manually transmit the outdoor temperature and outdoor humidity from the radio outdoor sensor to the radio-controlled weather station. Press the **°C/°F**-button **32** to select the temperature unit **°C**-Celsius or **°F**-Fahrenheit. Close the battery compartment.

**Attention:** The radio outdoor sensor must be set up within a maximum distance of 50 m from the radio-controlled weather station with no obstacles.



If you use multiple radio outdoor sensors, press the **CH-▲**-button **16** briefly to switch between the different radio outdoor sensors. The rotation symbol  to the left of the radio outdoor sensor channel **12** on the display shows that the radio-controlled weather station will alternate between the different radio outdoor sensors. Only connected sensors are shown. Press and hold the **CH-▲**-button **16**. The radio-controlled weather station will receive the temperature and humidity from the radio outdoor sensors and the radio waves  **12** will blink. If you wish to connect an additional radio outdoor sensor, the radio-controlled weather station will detect it automatically or you may press

the TX-button **33** on the radio outdoor sensor to transmit the signal manually.

## Ventilation rating



Based on the humidity and temperature values for the indoor and outdoor areas, the radio-controlled weather station will rate how the indoor humidity value may change through ventilation.



Humidity rises 5 % or more



Humidity stays the same



Humidity sinks by 5 % or more

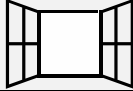


## Comfort display

The comfort display **20** is influenced by the indoor humidity. However, the status "COMFORT" is only displayed, if the indoor humidity and indoor temperature is in the comfort range (45 % - 65 % and 20 - 25 °C).

TOO WET	WET	COMFORT	DRY	TOO DRY
85 % - 95 %	66 % - 84 %	45 % - 65 %	31 % - 44 %	20 % - 30 %

## Ventilation recommendation

The radio-controlled weather station calculates the expected change in room climate from the measured indoor and outdoor values and will either recommend ventilation or not.

		
Open window	No window change	Close window
Room climate changes	Room climate stays the same	Room climate changes


## Setting the mould alert




Press the ON/OFF-ALARM-button **19** in normal time display mode to enter mould alert mode. OFF will appear on the display. Press and hold the ON/OFF-ALARM-button **19**. The pre-set mould alert value of 65 % humidity will blink. The value can be changed in 5 % increments by pressing the MEM-▼-button **17** or the CH-▲-button **16**. Press the ON/OFF-ALARM-button **19** to confirm your setting and return to normal time display mode.

## Activating and deactivating the mould alert

Press the ON/OFF-ALARM-button **19** 2 x briefly in normal time display mode to enter mould alert mode. OFF will appear on the display.

Press the MEM-▼-button **17** or the CH-▲-button **16**. The set humidity value and the mould alert icon  **4** will appear on the display. The mould alert is now activated.

Press the MEM-▼-button **17** or the CH-▲-button **16** again. OFF will appear on the display and the mould alert icon  **4** will disappear. The mould alert is now deactivated.

Press the ON/OFF-ALARM-button **19** to return to normal time display mode.


## Maximum and minimum values

The radio-controlled weather station will start to record the maximum and minimum values for temperature and humidity when the batteries are inserted.

Press the MEM-▼-button **17** 1 x briefly to show the maximum **MAX** indoor temperature **1**, outdoor temperature **15**, indoor humidity **3** and outdoor temperature **14** on the display.

Press the MEM-▼-button **17** again 1 x briefly to show minimum **MIN** indoor temperature **1**, outdoor temperature **15**, indoor humidity **3** and outdoor temperature **14** on the display. To delete the stored maximum and minimum values, press 1 x briefly and 1 x long the MEM-▼-button **17**. The stored maximum and minimum values are deleted and new values will be recorded.

## Battery low indicator

If the batteries are too weak to power the radio-controlled weather station, the radio outdoor sensor and the signal transmission, the battery low indicator **9** or **13** will appear on the display . The batteries must be replaced as soon as possible in all devices. Restart the radio-controlled weather station.

## Restart (RESET)

Press the RESET-button **26** to reset the radio-controlled weather station and restart radio signal reception.

## Cleaning instructions

Improper cleaning can damage the device. Do not submerge the device in water or other liquids. Do not use aggressive cleaners, brushes with metal or nylon bristles, or sharp or metallic cleaning tools such as knives, scrapers or similar implements. These may damage the surface of the device. Clean the device using a soft, dry, lint-free cloth, such as a glasses cleaning cloth.

Federal Communications Commission (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. 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.

Warning: Changes or modifications made to this device not expressly approved by **DIGI-MAX TECHNOLOGY LIMITED** may void the FCC authorization to operate this device. Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

**RF exposure statement:**

The transmitter must not be colocated or operated in conjunction with any other antenna or transmitter. This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. The installation and use of this product are not restricted.