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Introduction

About these operating instructions

Congratulations on purchasing your new device.

You have selected a high-quality product. The operating instructions are part of this product. They contain important information about the safety, usage and disposal of the product. Before using the product, please familiarize yourself with all operating and safety information. Use the product only as described and for the specified range of applications. Keep these operating instructions in a safe location. In addition, please pass these documents on, together with the product, to any future owner.

Intended use

The wireless weather station shows you the inside and outside temperature in degrees Fahrenheit (°F) or degrees Celsius (°C), as well as the minimum and maximum temperatures. The inside and outside humidity (%), as well as the minimum and maximum values, are also shown. Further indications include recommended ventilation time, indoor climate rating, indoor climate changes, and a radio-controlled time display in 12- or 24-hour format.

The product is intended exclusively for private households, and is not recommended for commercial use. Any use other than the intended use is considered to be improper. The manufacturer accepts no responsibility for damage caused by improper use or repairs, unauthorized modifications, or the use of unapproved replacement parts. The risk is borne solely by the user.

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Used Warning types

The following types of warning are used in these operating instructions:

AWARNING

WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

NOTICE

NOTICE indicates information that is considered important, but not hazardous (e.g. messages related to property damage).

TIP

A tip provides additional information that will assist you in using the device.



Safety

This section contains important safety instructions for handling the device. Improper use may result in personal injury and/or property damage.

IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USE! SAVE THESE INSTRUCTIONS

- This device may only be used by children aged 8 years and above and by persons with limited physical, sensory or mental capabilities or lack of experience and knowledge, if it is provided that they are being supervised or have been instructed on how to use the device safely and are aware of the potential risks. Children must not play with the device. Cleaning and user maintenance tasks may not be carried out by children unless they are supervised.
- Before using the product for the first time, make sure it is not damaged! Do not operate devices that are damaged.
- Only use the weather station in dry indoor areas.
- Make sure the weather station is not exposed to humidity or direct sunlight.

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Safety instructions for batteries

AWARNING

Mishandling the batteries can cause fires, explosions, leakages, or other hazards! In order to handle batteries safely, please observe the following safety instructions:

- Do not throw the batteries into a fire and do not subject them to high temperatures.
- Do not open, deform, or short-circuit batteries, since this can lead to chemical leakage.
- Do not attempt to recharge the batteries. Do not charge batteries unless they are explicitly labeled as "rechargeable". There is a risk of explosion!
- Never heat batteries in order to revive them.
- Check the condition of the batteries at regular intervals. Leaking chemicals can cause permanent damage to the device. Take particular care when handling damaged or leaking batteries. Risk of acid burns! Wear protective gloves.
- Chemicals that leak from a battery can cause skin irritation. In the event of contact with the skin, rinse with plenty of water. If the chemicals come into contact with your eyes, rinse them thoroughly with water, and do not rub them. Consult a physician immediately.
- Keep batteries out of the reach of children. Children might put batteries into their mouth and swallow them. If a battery has been swallowed, seek medical assistance immediately. Also, contact your local poison control center.

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AWARNING

- Do not mix alkaline, carbon-zinc (standard), Ni-Cd (rechargeable) or other types of batteries.
- ► Use only the correct type and size of battery indicated.
- Always insert the batteries the right way (observe correct polarity); otherwise there is a risk that they could explode.
- Clean the battery contacts and also those of the device prior to battery installation.
- If you do not intend to use the device for a long time, remove the batteries.
- Remove discharged batteries from equipment promptly to avoid possible damage from leakage.
- Always replace the whole set of batteries at one time, taking care not to mix old and new ones.
- If the battery compartment does not close securely, stop using the product and keep it away from children.

Package contents

The scope of delivery consists of the following components:

- 1 wireless weather station
- 1 outdoor sensor
- 5 batteries, type AAA
- 3 wall plugs
- 3 screws
- Operating instructions

TIP

Check the package for completeness and signs of visible damage. If the delivery is incomplete or damage has occurred as a result of defective packaging or during transport, contact the service hotline.

 Remove all parts from the packaging and remove all packaging material.

AWARNING

Do not allow children to play with the packaging materials! Keep all packaging materials away from children. Risk of suffocation!

Description of parts

See foldout page for illustrations

Figure A

Display

- 1 Indoor climate change display
- 2 Time display
- O Display field for outdoors

🜒 Control surface 🏵

- 6 Control surface (RCC) SET
- 🚯 Control surface 🐨
- Display field for indoors

Weather station

- 8 LIGHT button
- Fixing lugs
- Battery compartment
- Stand
- Battery compartment cover

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Figure B

Outdoor sensor

- B Display
- Indicator LED
- Fixing lugs
- TX button
- °C/°F button
- Channel switch
- Battery compartment
- Battery compartment cover
- 2 Stand

First use

TIP

Before use, insert a battery first into the outdoor sensor and then into the weather station.

Requirements at the setup location

NOTICE

- When selecting the setup location, make sure the devices are not exposed to direct sunlight, vibration, dust, heat, cold or humidity.
- ► Do not set up the device near sources of heat, e.g. heaters.
- Mount the outdoor sensor within a maximum radius of 164 ft to the weather station. Make sure there are no interfering obstacles between the outdoor sensor and the weather station. Otherwise, there could be transmission interference.

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- Both the weather station and the outdoor sensor can be hung up using the fixing lugs (1)/(1).
- Alternatively, the stands ① and ② of the weather station and the outdoor sensor can be folded out for placement on an even, level surface.

Using the outdoor sensor for the first time

- Open the battery compartment (1) on the back of the device by sliding the battery compartment cover (2) in the direction of the arrow.
- Insert two type AAA batteries as indicated in the battery compartment ⁽¹⁾.
- Then, close the battery compartment (D). The indicator LED (D) lights up briefly, and the current temperature, humidity and selected channel (e.g. CH 1) are shown on the display (D). The indicator LED (D) then lights up once per minute, indicating wireless transmission.

Using the weather station for the first time

- Open the battery compartment ① on the back of the device by removing the battery compartment cover ②.
- Insert three type AAA batteries as indicated in the battery compartment ①.
- Then, close the battery compartment **(D**.

After a power supply has been connected, the display lights up and quickly checks all display elements.

The weather station will now attempt to connect to the outdoor sensor. On the display field for outdoors ③, the reception icon 🕿 above the channel display 🛄 blinks.

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TIP

If no outside temperature or humidity is shown within approx. 3 minutes, the weather station stops searching for a signal. The reception icon ☎ turns off and the display field for outdoors ③ shows --^T and --[™]_№. The system likely cannot detect a signal due to structural conditions or because the sensor is too far away.

If the device is unable to connect to the outdoor sensor automatically, you can establish a connection manually:

- Press and hold the control surface (*) (*) until the reception icon (*) on the display field for outdoors (*) blinks.
- Press the TX button () to manually start the wireless signal for the outdoor sensor.

The weather station automatically starts to receive the WWVB signal after 3 minutes, regardless of whether the outdoor sensor reception search has been successful or not.

The reception icon O flashes on the time display O. If the reception icon is not flashing completely (\blacktriangle) on the display, it means that the reception of the WWVB signal is too weak and the time cannot be synchronized. Try to find a set-up location where the reception icon flashes completely (O) on the display.

If the WWVB signal is being received correctly, the current Eastern standard time (EST) is shown on the time display **2**. In addition, the reception icon **(**) is permanently shown on the time display **2**.

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TIP

The default time zone of the weather station is Eastern Standard Time (EST). To change the time zone please refer to **Basic settings** section.

If the device is unable to synchronize with the WWVB signal, you can also set the time manually (see **Basic settings** section) or you can attempt automatic reception again.

Briefly press control surface (a) to attempt the reception search again. The reception icon (a) flashes on the time display (2).

The WWVB signal

WWVB is a National Institute of Standards and Technology (NIST) time signal radio station near Fort Collins, Colorado. The 70 kW ERP signal transmitted from WWVB is a continuous 60 kHz carrier wave, the frequency of which is derived from a set of atomic clocks located at the transmitter site, yielding a frequency uncertainty of less than 1 part in one trillion.

Under ideal conditions, the weather station can receive the signal up to a distance of approximately 2000 miles from the transmitter. Reception of the WWVB signal normally takes between 3 and 5 minutes. If reception of the WWVB signal fails, the weather station will stop trying to establish reception after approximately 7 minutes. Reception can be considerably restricted by obstacles (e.g. concrete walls) or interference sources (e.g. other electronic devices). If reception problems persist, you should change the location of the weather station (e.g. put it by a window).

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Handling and operation Displays in basic mode

After the weather station has received the signal from the outdoor sensor and the WWVB signal, the device enters basic mode.

In basic mode, the weather station shows the following information on the display:

The time display 🕑

By default, the time is shown in 12-hour format. In the time from 12:00 noon to 11:59 p.m., PM (Latin for "post meridiem" = afternoon) will appear before the



time. In the time from 12:00 midnight to 11:59 a.m., FM (Latin for "ante meridiem" = morning) will appear before the time. During summer, **DST** (daylight saving time) is displayed. This display is only shown if the WWVB signal is being received.

If you live in an area that does not recognize daylight saving time (i.e. parts of Arizona and Indiana), you must turn off this function (see **Basic settings** section).

The display field for indoors 🕖



The inside temperature measured by the weather station is shown with a precision of a tenth of a degree. The temperature unit °F (for degrees Fahrenheit) appears on the right. You can also switch the temperature unit to °C (degrees Celsius).

If LL appears, the station has detected a temperature below the measurement range of 14 °F to 122 °F (-9.9 °C to 50 °C); H_{H} indicates this range has been exceeded. The relative humidity (RH) measured by the weather station is shown in % above the temperature display. When the relative humidity is higher than 85% or lower than 30%, the humidity warning icon Δ will appear. A recommended ventilation time is shown next to the temperature and the indoor climate rating is shown below the temperature.

Recommended ventilation time

Based on the temperature and humidity values inside and outside, the weather station provides a recommendation to open (III) or close (IXI) the window to improve the indoor climate.

Indoor climate rating

Based on the humidity value indoors, the weather station categorizes the current indoor climate into five levels:

TOO WET	Humidity ≥ 85%.	
WET	Humidity between 66% and 84%.	
COM FORT	Humidity between 45% and 65%.	
DRY	Humidity between 30% and 44%.	
TOO DRY	Humidity ≤ 29%.	
■■■■■■■ ■■■■■■■■■■■■■■■■■■■■■■■■■■■■■		

the measured humidity levels from 0, 3, 6, 9, and and a state of the measured humidity levels from 0, 3, 6, 9, and a state of the measured humidity levels from 0, 3, 6, 9, and

Indoor climate change display **()**

Using the recorded measurements (inside and outside), the weather station calculates the change to the indoor climate that can be expected. The symbols indicate how ventilating the room would affect the indoor climate:

	The expected increase in humidity is 5% or higher.
O NO CHANGE	The expected increase or decrease in humidity is 4% or less.
	The expected decrease in humidity is 5% or higher.

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The display field for outdoors 🕄



The outside temperature is shown with a precision of a tenth of a degree. The temperature unit °F (for degrees Fahrenheit) appears

on the right. You can also switch the temperature unit to °↓ (degrees Celsius). If the outside temperature drops to ≤ 37.4 °F, the frost warning icon 🕸 appears.

If LL appears, the station has detected a temperature below the measurement range of -40 °F to 140 °F (-40 °C to 60 °C); $H_{\rm A}$ indicates this range has been exceeded. The relative humidity (RH) measured by the outdoor sensor is shown in % above the temperature display. In addition, the channel used by the connected outdoor sensor is shown (e.g. CID).

Basic settings

- Press and hold the control surface (#) (5) for about 3 seconds.
 The hour indicator in the time display (2) blinks.
- Press the control surface (*) (*) or control surface (*) (*) to set the desired value.
- Press the control surface (a) to confirm your input. The minute indicator in the time display (2) blinks.
- Press the control surface (*) (*) or control surface (*) (*) to set the desired value.
- Press the control surface (a) to confirm your input.
 In the time display (2), i2Hr blinks.
- Press the control surface (*) (*) or control surface (*) (*) to select the desired time format (24-hour or 12-hour format).

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- Press control surface (#) (1) to confirm your input. In the time display (2), °F flashes (indicator for temperature unit).
- Press control surface ⑦ ④ or control surface ⑦ ⑤ to select the desired temperature unit (°F or °〔).
- Press control surface (a) to confirm your input. The current time zone setting 3 flashes in the time display (2).
- Press control surface (*) (1) or control surface (*) (1) to set the desired time zone:

#	Time zone	
0	Pacific Standard Time (PST)	
1	Mountain Standard Time (MST)	
2	Central Standard Time (CST)	
3	Eastern Standard Time (EST)	

- Press control surface (#) (1) to confirm your input. In the time display (2), []] flashes (current DST setting).
- Press the control surface () to confirm your input. The display switches to basic mode.

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Displaying the maximum/minimum temperature/humidity

After connection to the power supply and the outdoor sensor has been established, the maximum and minimum values for temperature and humidity are automatically captured and stored by the weather station.

- In basic mode, press the control surface () once. In both display fields () and (), the MAX icon appears next to the humidity and the highest measured value for both inside and outside is shown.
- If you press the control surface (*) (1) in basic mode, the MIN icon appears and the lowest measured value for both inside and outside is shown.
- After about 5 seconds, the current values for inside and outside are automatically shown once more.
- Press and hold the control surface (*) for about 3 seconds to delete the stored values.

Changing the temperature unit on the outdoor sensor

Upon delivery, the temperature unit is set to degrees Fahrenheit (°F) by default.

- Open the battery compartment (1) on the back of the device by removing the battery compartment cover (2).
- Press the °C/°F button ① to change the temperature unit on the outdoor sensor display ③.
- Close the battery compartment (D).

Background lighting

The background lighting on the display turns off after about 5 seconds to save battery power.

 Press the LIGHT button 8 to turn on the display background lighting for about 5 seconds.

Battery replacement indicator

When the battery icon \mathbf{I} appears in the display field for inside \mathbf{O} , you should replace the batteries in the weather station as soon as possible (see also the chapter **Using the weather station for the first time**).

When the battery icon **1** appears in the display field for outside **3** or in the display **(B)** of the outdoor sensor, you should replace the batteries in the outdoor sensor as soon as possible (see also the chapter on **Using the outdoor sensor for the first time**).



Switching the channel

Switching the channel on the outdoor sensor

You can choose between 3 different channels. Channel 1 is set by default.

- Open the battery compartment (1) on the back of the device by removing the battery compartment cover (2).
- Choose a channel by moving the channel switch (1) to CH 1, CH 2 or CH 3.
- Press and hold the control surface 4 until the reception icon con the display field for outdoors blinks.
- Press the TX button (1) to manually start the wireless signal for the outdoor sensor. After the signal is received, the temperature and humidity are shown in the display field for outdoors (3) on the new channel.
- Close the battery compartment (D).

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Switching the channel display on the weather station

When the weather station has received the signal from the outdoor sensor, it automatically shows the corresponding channel. However, you can also manually set the display of the different channels.

Press the control surface (*) (repeatedly to switch between displays (*) (only show channel 1), (*) (only show channel 2), (*) (only show channel 3) and (*) (rotate between all channels in a loop).

TIP

Only the values from outdoor sensors that are connected to the weather station are shown. If you use multiple outdoor sensors, choose a different channel for each outdoor sensor.



Troubleshooting

Unable to connect to the outdoor sensor.

- There are interfering obstacles or other sources of interference, such as concrete walls or other wireless transmission devices between the weather station and the outdoor sensor.
 - >> Move the device to another location and try again.
- The outdoor sensor is too far away from the weather station.
 - Move the two components closer together. "Visual contact" between the outdoor sensor and weather station often improves transmission.
- The batteries in the weather station or outdoor sensor are dead.

>> Replace the batteries.

Synchronization with WWVB signal not possible

- Disruptive obstacles or other interference sources, such as concrete walls or other radio transmission devices, are interfering with WWVB signal reception.
 - Change the installation location (e.g. near a window) and try again.
- The batteries of the weather station are dead.
 - >> Replace the batteries.

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Cleaning

NOTICE

- Ensure that no moisture penetrates into the device during cleaning to avoid irreparable damage to the device.
- Do not use caustic, abrasive or solvent-based cleaners. They can attack the surfaces of the device.
 - Clean the surfaces of the device with a soft, dry cloth. For stubborn dirt, use a slightly damp cloth with a mild cleaning agent.

Storage

 If you plan on not using the product for a long period, remove the batteries and store it in a clean, dry place away from direct sunlight.

Disposal

Disposal of device

Electrical devices may not be thrown away as part of normal household trash. If you can no longer use your electrical device, dispose of it in accordance with the legal provisions applicable in your state. This will ensure that old electrical devices are recycled and environmental pollution is kept to a minimum. Further information about disposal is available on the Internet at www.epa.gov.

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Disposal of batteries

Some batteries contain heavy metals such as mercury, lead, cadmium, and nickel; therefore, many communities do not allow them to be thrown away with your regular trash. Recycling is always the best option for disposing of used batteries.

Dry-Cell Batteries are used in a variety of electronics and include alkaline and carbon zinc (9-volt, D, C, AA, AAA), mercuric-oxide (button, some cylindrical and rectangular), silver-oxide and zincair (button), and lithium (9-volt, C, AA, coin, button, rechargeable) batteries. Look for in-store recycling bins or community collection events to dispose of these batteries.

Disposal of the packaging



The packaging materials have been selected for their environmental friendliness and ease of disposal, and are therefore recyclable.

Dispose of packaging materials that are no longer needed in accordance with applicable local regulations.



Note the marking on the different packaging materials and separate them as necessary. The packaging materials are marked with abbreviations (a) and numbers (b) with the following meanings:

1-7: Plastics, 20-22: Paper and cardboard, 80-98: Composites.

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Appendix Technical specifications

Weather station			
Voltage supply	3 x 1.5 V (DC) (Type AAA/LRO3)		
Temperature measurement range	14 °F to +122 °F (-9.9 °C to +50 °C)		
Temperature resolution	0.1 °F (0.1 °C)		
Measuring range of humidity	20 to 95%		
Humidity resolution	1%		
Radio clock signal	WWVB		
Outdoor sensor			
Voltage supply	2 x 1.5 V === (DC) (Type AAA/LRO3)		
Temperature measurement range	-40 °F to +140 °F (-40 °C to +60 °C)		
Measuring range of humidity	20 to 95%		
Humidity resolution	1%		
Transmission frequency	433 MHz		
Transmission strength	< 10 dBm		
Range	Max. 164 ft (area free of obstructions)		
Protection class	IPX4 (splash-proof)		

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FCC Compliance 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.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for Class B digital devices, 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 the 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.

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3 year limited warranty

What does this warranty cover?

The warranty covers:

- Damage, breakage or inoperability due to defect.
- Damage not caused by normal wear and tear or failure to follow the safety and maintenance instructions provided in the user manual.

What is not covered by the warranty?

The warranty does not cover damage caused by:

- Normal wear and tear of the product, including fragile parts (such as switches, glass, etc.);
- Improper use or transport;
- Disregarding safety and maintenance instructions;
- Accidents or acts of nature (e.g. lightning, fire, water, etc.);
- Tampering with the product (such as removing cover, unscrewing screws, etc.)

Consequential and incidental damages are also not covered under this warranty. However, some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you.

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What is the coverage period and warranty resolution?

The warranty is for 3 years from the date of purchase. At our discretion, the product will either be refunded or replaced.

What will we not do?

We will not:

- Start a new warranty period upon product exchange;
- Repair the product.

How to process the warranty?

To initiate, please:

- Call customer service at 1 (844) 543-5872
- Visit the customer service website at www.lidl.com/contact-us or
- Visit a LIDL store for further assistance

To ensure the quickest warranty return process, please have the following available:

- The original sales receipt that includes the purchase date;
- The product and manual in the original package;
- A statement of the problem.

What must you do to keep the warranty in effect?

- Retain the original receipt;
- Follow all product instructions;
- Do not repair or modify the product.

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How does state law relate to this warranty?

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. All implied warranties are limited by the duration and terms of this warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Distributor

lidl US LLC. Arlington VA 22202

FCC Supplier's Declaration of Conformity

Hygrometer with ventilation recommendation -USA/ AHFL 433 B2,MBO-314696 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. Suppliers Name: Lidl US, LLC Suppliers Address: 3500 S. Clark Street Arlington Virginia United States Internet contact information: www.lidl.com

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