

1.5 User Manual



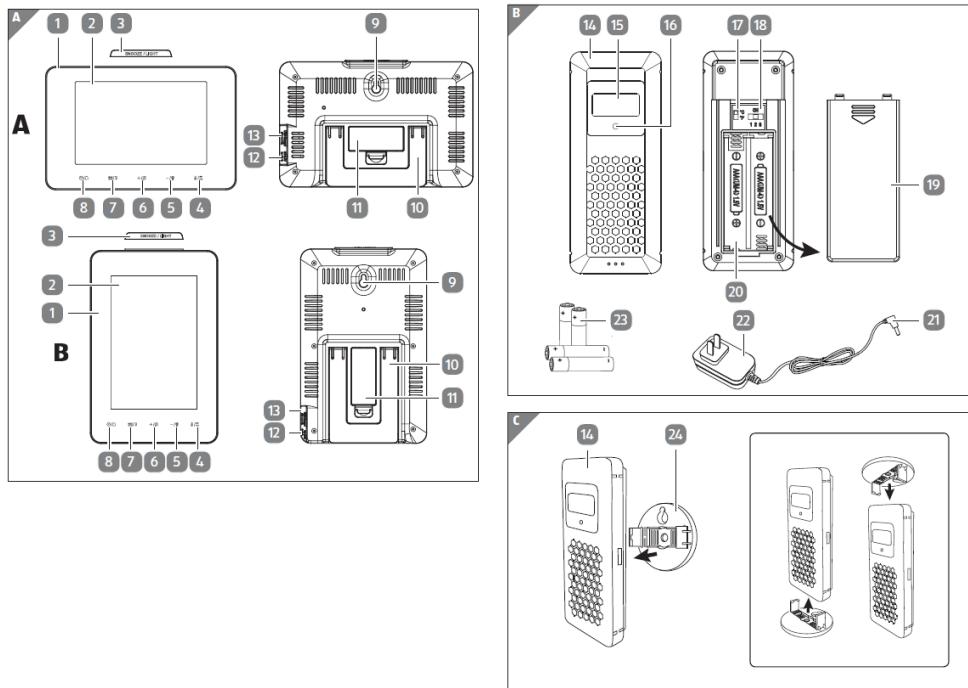
The image shows the front cover of the 'User Manual' for a 'DIGITAL WEATHER STATION' (Model 93716). The cover features a blue header with the text 'User Manual' and 'Manual del usuario'. Below this is a white section with a crown logo and the brand name 'SEMPRE®'. The main title 'DIGITAL WEATHER STATION' is in large blue capital letters, followed by 'ESTACIÓN METEOROLÓGICA DIGITAL' in a smaller blue font. Below the title are four images of the weather station in different colors (white, black, and two variations of blue). A circular seal on the left side of the cover reads 'MANUAL APPROVED BY TÜV RHEINLAND' and 'User-friendly Manual ID: #05007'. To the right of the seal, the text 'English06' and 'Español47' is printed. The right side of the image shows the 'Contents' table of contents, which lists various sections and their page numbers, such as 'Overview' (3), 'Use' (4), 'Safety' (9), 'First use' (16), 'Preparing the radio sensor for use' (17), 'Preparing the base unit for use' (20), 'Time functions' (26), 'Weather data' (30), 'Air pressure' (33), 'Weather forecast' (34), 'Moon phases' (37), 'Other functions' (37), 'Storage' (40), 'Troubleshooting' (41), 'Technical data' (43), and 'Disposal' (45). The page number 'Dok./Rev.-Nr. 94987_20160623' is also visible on the right.

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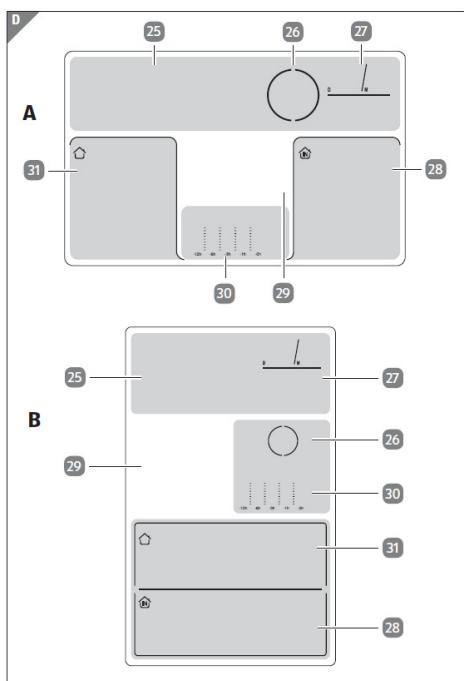
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Scope of delivery/device parts

1	Base unit	19	Battery compartment door (radio sensor)
2	Display (base unit)	20	Battery compartment (radio sensor)
3	SNOOZE/LIGHT button	21	Output plug
4	Ø 12mm button	22	Power adaptor
5	-/+ button	23	Battery, 4x
6	+/- button	24	Hanging bracket
7	MAX/MIN button	25	Clock and alarm
8	Ø/D button	26	Moon phase
9	Hanging hole	27	Date and weekday
10	Foldout stand	28	Indoor weather
11	Battery compartment (base unit)	29	Weather forecast
12	DC input jack	30	Air pressure
13	USB charging port	31	Outdoor weather
14	Radio sensor	A = Horizontal version	
15	Display (radio sensor)	B = Vertical version	
16	Signal indicator light		
17	Temperature unit switch		
18	Channel switch		

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 General information

General information
Reading and storing the user manual


This user manual accompanies the Digital Weather Station (hereafter referred to as "weather station"), and contains important information on setup and use.

Before using the weather station, read the user manual carefully. This particularly applies to the safety instructions. Failure to do so may result in personal injury or damage to the weather station.

Store the user manual for future use. Make sure to include this user manual when passing the weather station on to third parties.

Explanation of symbols

The following symbols and signal words are used in this user manual, on the weather station or on the packaging.

⚠ WARNING!

This signal word/symbol designates a hazard with moderate risk, which may result in death or severe injury if not avoided.

⚠ CAUTION!

This signal word/symbol designates a hazard with low risk, which may result in minor or moderate injury if not avoided.

 General information

NOTICE!

This signal word warns of possible damage to property.



This symbol provides you with useful additional information regarding setup and use.

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 Safety

Safety
Proper use

The weather station is exclusively designed for showing time and weather information. It is only intended for indoor private use and not suitable for commercial purposes.

Only use the weather station as described in this user manual. Any other use is considered improper and may result in damage to property or even personal injury. The weather station is not a toy for children.

The manufacturer or vendor cannot be held liable for damages incurred through improper or incorrect use.

Safety notes
⚠ WARNING!
Risk of electric shock!

A faulty electrical installation, excessive line voltage or incorrect operation may result in an electric shock.

- Only use the power adaptor provided with the weather station.
- Only use the power adaptor in dry and indoor areas. Do not let the power adaptor come into contact with water or other liquids.

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 Safety

- Connect the power adaptor only to an alternating current (AC) power supply. Make sure that the voltage corresponds with the voltage details on the device. The power adaptor must be operated using (100 ~ 240 V, 50/60 Hz) alternating current (AC).
- Only connect the power adaptor to a properly installed and easily accessible socket so that you can quickly pull the plug in an emergency.
- Fully unwind the power adaptor cord before connecting it. Make sure that the cord cannot get damaged by sharp edges or hot objects.
- Never cover the power adaptor. Ensure that sufficient ventilation is provided in order to prevent the power adaptor from overheating.
- Do not use the power adaptor if the housing or cord is defective or has other visible damages. In the event of damage, only have the power adaptor serviced by the manufacturer, its customer service team or a similarly qualified person to avoid risks.

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Safety

- The power adaptor cord cannot be replaced. If the cord or the power adaptor is damaged, they must be thrown away and replaced by a power adaptor of the same model.
- Always remove the power adaptor from the power socket if:
 - you want to clean the weather station or do not intend on using the weather station for a prolonged period of time
 - the weather station is not working properly
 - during thunderstorms
- Always pull the plug, not the cord when you are removing the power adaptor from the power socket.

⚠ WARNING!

Danger for children and persons with impaired physical, sensory or mental capacities (e.g. partially disabled persons, older persons with reduced physical and mental capacities) or lack of experience and knowledge (e.g. older children).

- If they are supervised or have been instructed in how to safely use the

Safety

- weather station and have understood the risks associated with operating it, this weather station may be used by children ages eight and over as well as persons with impaired physical, sensory or mental capacities or those lacking experience and knowledge. Children may not play with the weather station. Cleaning and user maintenance must not be performed by unsupervised children.
- Keep children under the age of eight away from the weather station and power cord.
- Make sure that children do not play with the plastic wrapping. They may get caught in it when playing and suffocate.

NOTICE!

Risk of damage!

If you do not use the weather station (base unit and radio sensor) properly, you may damage it.

- Do not use the weather station in a damp place (e. g. bathroom) and avoid dust, splashing or dripping water, heat

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Safety

- sources, extreme temperatures and direct sunlight.

- Make sure the weather station stays away from magnetic fields (e. g. speakers).
- Make sure no foreign objects penetrate the housing of the weather station.
- Do not exert pressure on the display surface of the weather station, as this may cause the surface to break.
- Do not allow sharp or pointed objects to come in contact with the surface of the weather station.
- Keep the weather station from falling. Failure to do so may break the weather station.
- Do not place the weather station near any heat sources. Never place naked flames such as burning candles on or immediately next to the weather station.
- Under no circumstances should you open the housing of the weather station. There are no user-serviceable parts inside. Improper repairs may damage the weather station. Repairs should only be carried out by professional technicians.

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Safety

- The only exception is the removal of the battery compartment door to replace the batteries.
- The radio sensor must be protected from direct exposure to moisture such as rain.

Battery notes

⚠ WARNING!

Health hazards!

There is a high health hazard if children or animals swallow the batteries.

- Store the batteries so they are not accessible to children and animals. If you suspect a battery has been swallowed, seek immediate medical advice.

⚠ WARNING!

Risk of explosion

Improper handling of batteries increases the risk of explosion.

- Store the batteries in a cool, dry place. Never expose the batteries to excessive heat (e.g. direct sunlight) and never dispose of them in a fire.

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Safety

- Only use batteries of the same type.
- Ensure the correct polarity when inserting the batteries. This is shown in the battery compartments. Incorrect installation may damage the weather station.
- Always use batteries of premium quality. Batteries of poor quality may leak and cause damage.
- Before inserting the batteries, make sure the contacts inside the battery compartment and on the battery itself are clean and intact. Clean them if necessary.
- Always replace all batteries in a battery compartment at the same time.
- Remove the batteries from the weather station if they are dead. Also remove the batteries if you do not intend on using the weather station for a prolonged period of time. Otherwise, the batteries may leak and cause damages.
- If the batteries are leaking, remove them immediately to prevent damaging the weather station. Do not remove the batteries with your bare hands or allow

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First use

- the battery fluid to come into contact with skin, eyes or mucus membranes. Wear normal household rubber gloves to do so. If, however, your skin has come into contact with the battery fluid, wash your hands immediately and consult a physician if necessary.
- Batteries should only be installed or replaced by an adult.
- Keep the weather station away from children when the battery cover is removed.
- Remove the batteries before disposing of the weather station.

First use

Checking the weather station and package contents

NOTICE!

Risk of damage!

If you are not cautious when opening the packaging with a sharp knife or other pointed object, you may quickly damage the weather station.

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About time signals

- For this reason, be very careful when opening it.

1. Take the weather station out of the packaging.
2. Check to make sure that all components and accessories have been received (see **Fig. A** and **B**).
3. Check whether the weather station or the individual parts exhibit damage. If this is the case, do not use the weather station. Contact the manufacturer via the service address indicated on the warranty card.

About time signals

The base unit of the weather station is a radio-controlled clock and can receive the time signals emitted through the signal transmitter in your country. If the base unit is located within the transmission range, it can receive the signals and synchronize with the broadcasted time and date several times a day. In case of a failure in signal reception, the base unit can continue to run accurately and attempt to look for time signals at the next designated time. If no signals can be found, the time and date can also be set manually.

Preparing the radio sensor for use

Inserting or replacing batteries



- Do not use any rechargeable batteries, as their voltage is low. This influences the measuring precision.
- Preferably use alkaline batteries which last longer, particularly with low outdoor temperature.

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Preparing the radio sensor for use

1. Remove the battery compartment door **19** on the back of the radio sensor **14**.
2. Pay attention to the correct battery polarity (+ or -). For battery replacement, remove the old batteries first. Insert 2 batteries **23** (size: AAA, provided) into the battery compartment **20**.

3. Close the battery compartment door. The radio sensor will detect the temperature and humidity of the surroundings and send the collected data to the base unit once a minute. Both the temperature (°C/°F) and humidity (%) will be shown on the display **15** of the radio sensor. The signal indicator light **16** will blink once when the data have been sent.

Using additional radio sensors

The weather station is supplied with one radio sensor. If necessary, you can operate it with up to three radio sensors. Additional sensors are available through the after sales support. Please check the price and details with the support. The contact details are on the warranty card.

The radio sensors can be located in different rooms or outdoors. Each sensor must have its own radio sensor number (1-3) allocated to it.

To use additional radio sensors:

1. Remove the battery compartment door **19** on the back of the radio sensors.
2. Set a dedicated radio sensor number (1-3) for each radio sensor using the channel switch **18**. The selected radio sensor number (e.g. **1** = radio sensor number 1) will show on the display **15**.

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Preparing the radio sensor for use

3. Set a dedicated temperature unit (°C/°F) for each radio sensor using the temperature unit switch **17**. The selected temperature unit will show on the display.
4. Close the battery compartment door.

The base unit will receive the weather data from all available radio sensors (see chapter "Preparing the base unit for use"). In the event of interference from nearby equipment transmitting radio signals, you may change the radio sensor number to avoid the interference.

Installing the radio sensor



Take note of the tips below to ensure the best possible signal receptions.

- Only install the radio sensor outdoors in a dry, shaded area (e.g. under a roof).
- When installing on a wall, ensure that no electric cables, gas or water pipes are buried beneath the wall surface before drilling any holes.
- The maximum distance between the base unit and radio sensor should not be greater than 100 m (direct visible distance). Building materials, such as concrete walls, may reduce or prevent signal reception between the base unit and radio sensor.
- Do not place the base unit and radio sensor on the floor. This limits the transmission range.
- Electronic devices such as televisions and computers can disrupt the signal reception.

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Preparing the base unit for use

- At low temperature during winter, the performance of the radio sensor batteries may fall significantly. This reduces the transmission range.

1. Mount the hanging bracket **24** on a wall using the hanging or screw hole (nail or screw not provided).
2. Attach the radio sensor **14** to the hanging bracket (see Fig. C).

Preparing the base unit for use

Powering the base unit



The base unit can be powered by batteries or an alternating current (AC) power supply using the power adaptor.

Inserting or replacing batteries

1. Open the battery compartment **11** on the back of the base unit **1**.
2. Pay attention to the correct battery polarity (+ or -). For battery replacement, remove the old batteries first. Insert 2 batteries **23** (size: AAA, provided) into the battery compartment.
3. Close the battery compartment.
4. The display **2** will turn on and an alarm tone will sound once the batteries have been inserted. Wait for about 30 minutes. During this time the base unit gathers the weather data and receives the time signals (see chapter "Searching for signals").

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Preparing the base unit for use

2. The base unit will then search for weather data from all available radio sensors. During this time, the reception icon  (see chapter "Weather data") blinks in the outdoor weather display area **31**, indicating the base unit is searching for the weather data.

- When the weather data have been successfully received, the reception icon will turn off and the current weather data will show in the outdoor weather display area.
- When no weather data have been received, the reception icon will turn off and no outdoor weather data will be available.
- In case of an unsuccessful search for weather data, press and hold the  button **4** to initiate a new search. However, this can only be carried out after the search for time signals has been completed.
- 3. Around 3 minutes after the base unit has been powered, it will search for time signals emitted through the signal transmitter in your country. During this time, the time signal icon  (or ) **33** (see chapter "Time functions") blinks in the clock and alarm display area **25**, indicating the base unit is searching for the time signals.
- When the time signals have been successfully received, the time signal icon  (or ) will remain visible and the current date and time will show in the clock and alarm display area. The base unit will continue to receive time signals every night (up to 3 times) and synchronize with the displayed time.
- During the search for time signals, all other setting functions (e.g. manual and alarm settings) will be disabled.

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Preparing the base unit for use

- When no time signals have been received after about 7 minutes, the time signal icon will turn off.
- In case of an unsuccessful search for the time signals, press and hold the $-\text{/}\text{\textcircled{2}}$ button **5** to initiate a new search. In order to ensure the best possible signal receptions, avoid placing the base unit in buildings with lots of concrete and metal structures, or near electronic equipment such as TVs, computers, power lines, radio transmitters, etc. If necessary, relocate the base unit.
- 4. As the synchronized time is only a coordinated universal time, press the $-\text{/}\text{\textcircled{2}}$ button to select a time zone (indicated by the time zone icon on the display, see chapter "Time functions") that corresponds to your location.
- Time zone: P = Pacific, M = Mountain, C = Central, E = Eastern

Manual settings

This operation allows you to manually set the date and time, select the time format, adjust the weather forecast and air pressure, etc.

1. Press and hold the $\text{\textcircled{2}}/\text{\textcircled{1}}$ button **8** until the "year" blinks on the display.
2. Press the $+\text{/}\text{\textcircled{2}}$ **6** or $-\text{/}\text{\textcircled{2}}$ **5** button to set the year.
3. Press the $\text{\textcircled{2}}/\text{\textcircled{1}}$ button. The "month" will blink on the display.
4. Press the $+\text{/}\text{\textcircled{2}}$ or $-\text{/}\text{\textcircled{2}}$ button to set the month.
5. Press the $\text{\textcircled{2}}/\text{\textcircled{1}}$ button. The "day" will blink on the display.
6. Press the $+\text{/}\text{\textcircled{2}}$ or $-\text{/}\text{\textcircled{2}}$ button to set the day.
7. Press the $\text{\textcircled{2}}/\text{\textcircled{1}}$ button. The "hour time" will blink on the display.
8. Press the $+\text{/}\text{\textcircled{2}}$ or $-\text{/}\text{\textcircled{2}}$ button to set the hour time.

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Preparing the base unit for use

9. Press the $\text{\textcircled{2}}/\text{\textcircled{1}}$ button. The "minute time" will blink on the display.
10. Press the $+\text{/}\text{\textcircled{2}}$ or $-\text{/}\text{\textcircled{2}}$ button to set the minute time.
11. Press the $\text{\textcircled{2}}/\text{\textcircled{1}}$ button. The "time format" will blink on the display.
12. Press the $+\text{/}\text{\textcircled{2}}$ or $-\text{/}\text{\textcircled{2}}$ button to select a time format (12-hour or 24-hour).
13. Press the SET button. The "summer time" (default value: OFF) will blink and the summer time icon (or **27**) (see chapter "Time functions") will show on the display.
14. Press the $+\text{/}\text{\textcircled{2}}$ or $-\text{/}\text{\textcircled{2}}$ button to turn ON or OFF the summer time.
15. Press the $\text{\textcircled{2}}/\text{\textcircled{1}}$ button. The graphical weather forecast will blink on the display.
16. Press the $+\text{/}\text{\textcircled{2}}$ or $-\text{/}\text{\textcircled{2}}$ button to select a weather forecast condition according to the forecast on TV or internet. The weather station computes weather forecasts based on changes in air pressure. However, when using the weather station for the first time, it may take up to a few days of collecting sufficient information for more accurate forecasts. Manual setting of the weather forecast can slightly accelerate this process.
17. Press the $\text{\textcircled{2}}/\text{\textcircled{1}}$ button. The "air pressure" will blink on the display.
18. Press the $+\text{/}\text{\textcircled{2}}$ or $-\text{/}\text{\textcircled{2}}$ button to adjust the air pressure. If desired, enter the altitude-related or more accurate air pressure values of your location obtained from the internet or the local authorities.
19. Press the $\text{\textcircled{2}}/\text{\textcircled{1}}$ button. The manual settings are now complete.

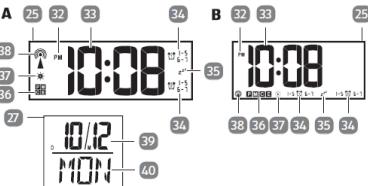
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Time functions

Time functions

Display (time functions)

The date and time information is displayed in the date and weekday area **27** and clock and alarm area **25** of the display.



A = Horizontal version, B = Vertical version

- 32** PM time (12-hour format)
- 33** Time (hours, minutes)
- 34** Alarm 1 and alarm 2
- 35** Snooze
- 36** Time zone
- 37** Summer time
- 38** Time signal
- 39** Day and month
- 40** Day of the week

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 Time functions

Alarms

The alarm clock allows 2 alarm times to be set.

To set the alarm times:

1. Press the \odot/\square button **⑧** to select an alarm setting (indicated by "AL1" or "AL2" in the clock and alarm display area **⑤**).
2. Select the weekday or weekend alarm. To do so: Press the $+/0$ button **⑥** once to select the weekday alarm (e.g. $1-5\odot$). The alarm will sound from Monday to Friday.
3. Press the $+/0$ button a second time to select the weekend alarm (e.g. $\odot 6-1$). The alarm will sound during the weekend.
4. Press the $+/0$ button a third time to select both weekday and weekend alarms (e.g. $1-5\odot 6-1$). The alarm will sound every day.
5. Press and hold the \odot/\square button until the "hour time" of the selected alarm setting blinks.
6. Press the $+/0$ or $-/\odot$ **⑤** button to set the hour time.
7. Press the \odot/\square button. The "minute time" will blink on the display.
8. Press the $+/0$ or $-/\odot$ button to set the minute time.
9. Press the \odot/\square button. The alarm time is now set. The alarm will be automatically switched on with the alarm icon (e.g. $1-5\odot$) showing on the display.

 Time functions

To briefly silence the alarm (Snooze function):

Press the SNOOZE/LIGHT button **③**. The alarm will sound again after the snooze period (5 minutes) is over. During the snooze period, the alarm icon (\odot or \odot) **④** and snooze icon (z^{21}) **⑤** will blink. To cancel the snooze function, press any button except the SNOOZE/LIGHT button.

To turn off the alarm when it sounds:

Press any button (except the SNOOZE/LIGHT button **③**) on the base unit. The alarm will also stop without pressing any buttons after 2 minutes. The alarm remains switched on and will sound again at the same time on the following day if the alarm setting is applicable.

To switch the alarms on or off:

1. Press the $+/0$ button **⑥** once to switch on Alarm 1. The alarm 1 icon (\odot) with the selected weekday or weekend alarm setting will show on the display.
2. Press the $+/0$ button a second time to switch on Alarm 2. The alarm 2 icon (\odot) with the selected weekday or weekend alarm setting will show on the display.
3. Press the $+/0$ button a third time to switch on both Alarm 1 and Alarm 2. The alarm 1 (\odot) and alarm 2 icons (\odot) with the selected weekday or weekend alarm setting will show on the display.
4. Press the $+/0$ button a fourth time to switch all alarms off.

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 Time functions

Summer time

Summer time or daylight saving time information is included in the broadcasted time signals. When summer time or daylight saving time is in force, the summer time icon (\odot or \odot) **⑦** will show on the display.

Time zone

Press $-/\odot$ button **⑤** to change the time zone. The corresponding time zone icon **⑥** will show on the display. Time zone: P = Pacific, M = Mountain, C = Central, E = Eastern.

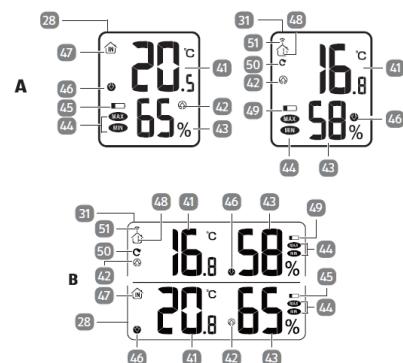
Time format

To change between 12 and 24-hour time formats, see chapter "Manual settings". If 12-hour format is selected, the afternoon hours are identified with the PM time icon **⑨**.

 Weather data

Weather data
Display (weather data)

The weather data are displayed in the indoor weather **⑧** and outdoor weather **⑨** areas of the display. The outdoor weather area shows the data recorded by the base unit and the outdoor weather area shows the data sent by the radio sensor.



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Weather data

- 41 Temperature (°C/°F)
- 42 Rising icon
- 43 Humidity (%)
- 44 MAX and MIN icons
- 45 Low battery (base unit)
- 46 Dropping icon
- 47 Indoor icon
- 48 Radio sensor number
- 49 Low battery (radio sensor)
- 50 Sensor change icon
- 51 Reception icon

Switching between radio sensors

If more than one radio sensor is used:

1. Press the $\Delta/\text{12h}$ button 40 once to switch to radio sensor 2. The radio sensor number 48 will change to "2" and the outdoor weather display area 31 will only show the data sent by radio sensor 2.
2. Press the $\Delta/\text{12h}$ button a second time to switch to radio sensor 3. The radio sensor number will change to "3" and the outdoor weather display area will only show the data sent by radio sensor 3.
3. Press the $\Delta/\text{12h}$ button a third time to activate the automatic sensor change function. The sensor change icon (C) 50 will turn on and the outdoor weather display area will alternate between all radio sensors.

Weather data

4. Press the $\Delta/\text{12h}$ button a fourth time to cancel the automatic sensor change function and switch to radio sensor 1. The radio sensor number will change to "1" and the outdoor weather display area will only show the data sent by radio sensor 1.

See chapter "Using additional radio sensors" if you want to assign numbers to radio sensors.

Maximum and minimum values

To display the highest and lowest values for the last 24 hours in relation to temperature and humidity:

1. Press the $\text{MAX/}\text{MIN}/\text{C}$ button 7 once to display the maximum values.
2. Press the $\text{MAX/}\text{MIN}/\text{C}$ button a second time to display the minimum values.
3. Press the $\text{MAX/}\text{MIN}/\text{C}$ button a third time to display the current weather data.

The maximum or minimum value is indicated by the MAX or MIN icon 44, respectively. The stored values will be deleted daily at 12:00 am.

Temperature and humidity trend

For the temperature and humidity values measured by the base unit and radio sensor, the trend is shown in the form of an arrow. A rising trend is indicated by a rising icon (↑) 42. A falling trend is indicated by a dropping icon (↓) 46.

A change in trend is displayed when the temperature changes by 1°C or more, or the humidity by 3 % or more within one hour.

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Air pressure

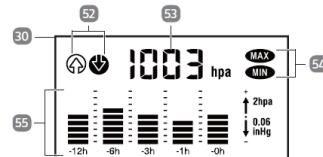
Units of temperature

To change the temperature unit (°C/°F) on the base unit, press and hold the $\text{MAX/}\text{MIN}/\text{C}$ button 7.

Air pressure

Display (air pressure)

The air pressure data are displayed in the air pressure area 30 of the display.



- 52 Trend icons
- 53 Current air pressure
- 54 MAX and MIN icons
- 55 History

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Weather forecast

Current air pressure and air pressure trend

The current air pressure is displayed in hPa in the current air pressure area 53. The value can be manually changed (see chapter "Manual settings").

The trend of the air pressure within the last 12 hours is displayed in the form of a bar diagram in the history area 55. The scale goes from -1 (1 hour ago) to -12 (12 hours ago).

The air pressure is also indicated by the trend icons (↑ and ↓) 52. The upward icon indicates an improving weather condition. The downward icon indicates a deteriorating weather condition.

Maximum and minimum values

To display the highest and lowest values for the last 12 hours in relation to air pressure:

1. Press the $\text{MAX/}\text{MIN}/\text{C}$ button 7 once to display the maximum value.
2. Press the $\text{MAX/}\text{MIN}/\text{C}$ button a second time to display the minimum value.
3. Press the $\text{MAX/}\text{MIN}/\text{C}$ button a third time to display the current air pressure value.

The maximum or minimum value is indicated by the MAX or MIN icon 54, respectively.

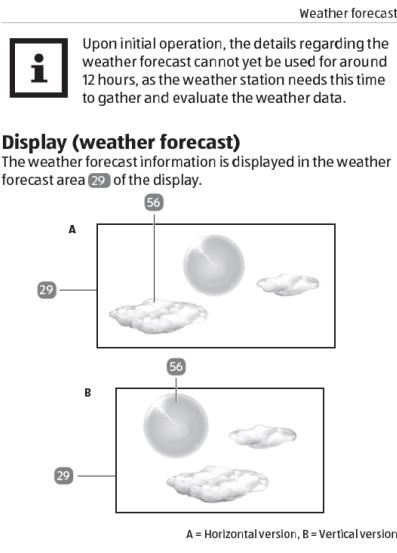
Weather forecast

The weather station calculates weather forecasts for the next 12 hours based on the gathered weather data. The forecasts provide an approximate indicator of future weather development.

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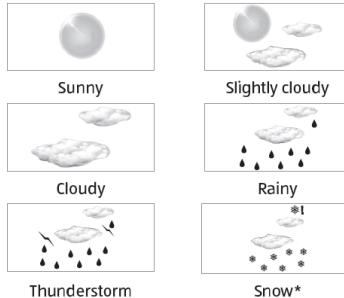


56 Weather forecast

Weather forecast

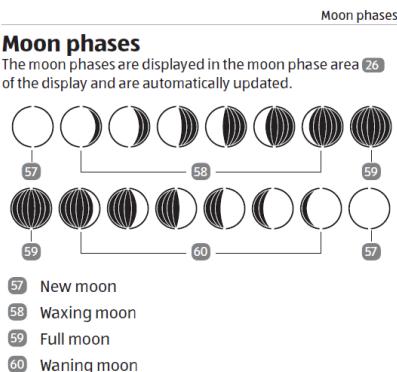
Weather forecast symbols

The weather forecast symbols are displayed in the weather forecast area 29.



***Frost warning** - When the radio sensor measures a temperature of between -3 °C and 1 °C, a risk of frost exists and the snowflake symbol (※) will blink. If the temperature falls below -3 °C for a constant period of time, the snowflake symbol will remain visible on the display.

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**Other functions****Display backlight****Battery operation**

Press the SNOOZE/LIGHT button 3 to briefly switch the backlight on.

AC power supply operation

The backlight is always switched on when the power adaptor 22 is used. Press the SNOOZE/LIGHT button once to dim the backlight. Press the button a second time to turn the backlight off. Press the button a third time to turn the backlight on again.

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Other functions

When the backlight is on, it will become dimmer during searching time signals. Once the time signals have been successfully received, the backlight will return to full brightness again.

USB charging port

The USB charging port 13 (output: 5.0 V == 1000 mA) can be used for charging external devices (such as mobile phones and mp3 players) through a USB cable (not provided). The external devices cannot be charged when the base unit is powered by batteries.

Operation mode

The main unit will enter sleeping mode when it is left idle for a set period of time. To resume the normal operation mode, press and hold any button (except the SNOOZE/LIGHT button) for 5 seconds to return to normal operation mode.

Low battery warning

The base unit will lose all settings after a battery change. You may have to manually reset the base unit before using it again (see chapter "Manual settings").

There is a low battery icon for the base unit (25) and each radio sensor (40), and corresponds to the displayed radio sensor number. When the low battery icon is displayed, replace the batteries in the respective device (see chapters "Inserting or replacing batteries" and "Powering the base unit").

The low battery icon (15) will also show on the display 15 of the radio sensor when the batteries are weak.

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Cleaning

Resetting the weather station

If incorrect values are being displayed, you should reset the weather station by removing and then re-inserting the batteries. If the power adaptor is used, pull the power adaptor out of the socket and then reconnect it.

Cleaning

NOTICE!

Risk of damage!

If you do not clean the weather station (base unit and radio sensor) properly, you may damage it.

- Do not use any aggressive cleaners, sharp or metallic cleaning utensils such as knives, hard putty knives and the like. They may damage the surfaces of the weather station.
- Make sure that no water penetrates the housing of the weather station.

1. Remove the power adaptor from the socket if you are using AC power supply for the base unit.
2. Clean the weather station with a damp cloth.
3. Dry the weather station with a soft, dry cloth.

Cleaning

Storage

Storage

CAUTION!

Risk associated with leaking battery fluid and risk of damage!

If you store the weather station for a prolonged period of time, and the batteries are still inserted, the batteries may leak and cause permanent damage. The battery acid (electrolyte) is corrosive.

- If you do not use the weather station for a prolonged period of time, store the batteries separately. Store the batteries so that they are not accessible to children.
- Do not remove leaking batteries with your bare hands. Wear normal household rubber gloves to do so. Do not allow battery acid to come into contact with skin, eyes or mucus membranes. If, however, your skin has come into contact with battery fluid, wash your hands immediately and consult a physician if necessary.

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Troubleshooting

- Wipe up the leaked battery acid with a damp cloth and dispose of it with your household waste.

1. Clean the weather station (see chapter "Cleaning").
2. Take the inserted batteries out of the battery compartment and store them properly.
3. Store the weather station in a clean, dry location.

Troubleshooting

NOTICE!

Risk of damage!

If you do not handle the weather station properly, you may damage it.

- Do not open the housing of the weather station. Liability and warranty claims are waived in the event of repairs performed by the user or incorrect operation.

Some problems may be caused by minor faults that you can fix yourself. To do so, follow the instructions in the following table. If it is still not possible to resolve the problem, contact after sales support. Do not repair the weather station yourself.

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Troubleshooting

Problem	Possible cause & solution
Time signals cannot be received.	<ul style="list-style-type: none"> - Check if the installation location is suitable for signal reception. - Start the signal reception manually by pressing the Δ / ∇ button  on the base unit. - Set the time manually.
The base unit does not receive any signals from the radio sensor.	<ul style="list-style-type: none"> - Make sure no electrical appliances are near the radio sensor or base unit. - Check if the batteries in the radio sensor are dead. - Start the signal reception manually. To do so, press and hold the Δ / ∇ button  on the base unit. - Move the base unit closer to the radio sensor or vice versa.
Incorrect values are being displayed.	<ul style="list-style-type: none"> - Reset the weather station (see chapter "Resetting the weather station").
"HI" or "LO" is displayed instead of measured values for temperature or humidity.	<ul style="list-style-type: none"> - The values are above or below the measurement range.

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Model: 93716

Technical data

Technical data

Product name:	Digital Weather Station
Model:	WS97210-1 (black, horizontal)/ WS97230-1 (black, vertical)/ WS97210-2 (white, horizontal)/ WS97230-2 (white, vertical)

Base unit

Input:	5.0 V DC ===
Batteries:	3 V DC === (2× 1.5 V, Type LR3/R3/AAA)
Measurement range of temperature:	0 °C to 40 °C
Measurement range of relative humidity:	20 % to 95 %
Measurement range of air pressure:	800–1100 hPa
USB charging port:	5.0 V === 1000 mA

Radio sensor

Batteries:	3 V DC === (2× 1.5 V, Type LR3/R3/AAA)
Measurement range of temperature:	-15 °C to 60 °C
Measurement range of relative humidity:	20 % to 95 %
Transmission frequency:	433 MHz
Range:	max. 100 metres (open space)

Power adaptor (provided)

Model:	6301-BS-A or 6301-BS-B
Input:	100 ~ 240 V AC, 50 / 60 Hz
Output:	5.0 V DC 1000 mA

Technical data

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 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.

Disposal

Disposal

Disposing of the packaging

- Sort the packaging before you dispose of it. Dispose of paperboard and cardboard with the recycled paper service and wrappings with appropriate collection service.

Disposing of old appliances

- Should the weather station no longer be capable of being used at some point in time **dispose of it in accordance with the regulations in force in your state or country**.
- Please ensure your recycling information applies to the local regulations and the EPA recommendations (www.epa.gov).

Batteries and storage batteries may not be disposed of with household waste!

As the end user you are required by law to bring all batteries and storage batteries, regardless whether they contain harmful substances* or not, to a collection point run by the communal authority or borough or to a retailer, so that they can be disposed of in an environmentally friendly manner. Bring the entire weather station (including the rechargeable battery) to your collection point and make sure that it is in an uncharged state!

*labelled with: Cd = cadmium, Hg = mercury, Pb = lead