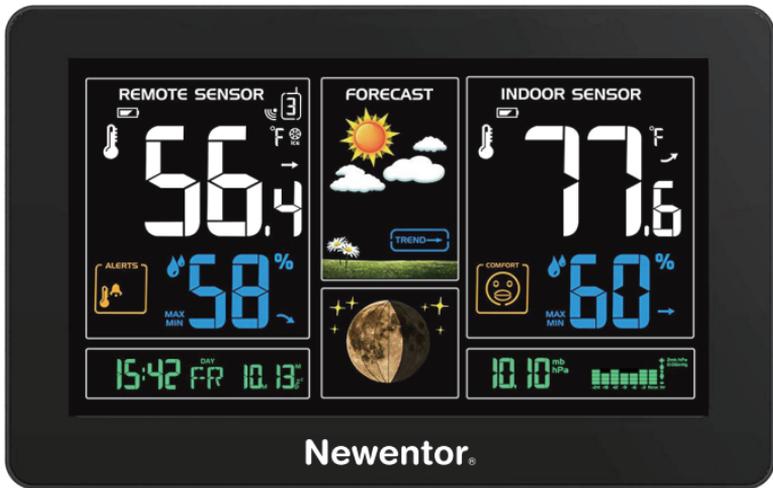


# Weather Station

(Save the Instructions For Future Reference)



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Weather station is functional products, if you have any question of using it, contact us through above ways to get support.

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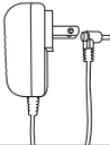
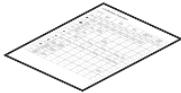
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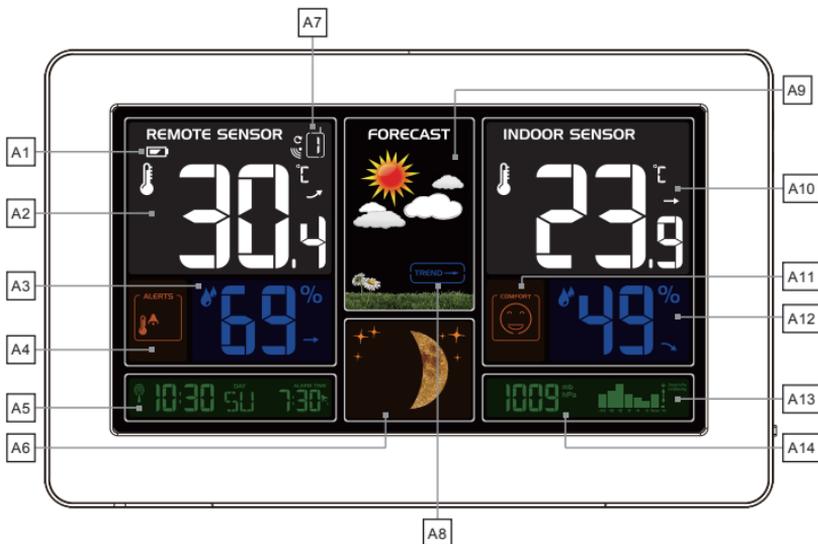
# EN – Weather Station

## 01 WEATHER STATION FEATURES

### 1.1 Package List

ITEM NO	PART NAME	FIGURE	QTY
1	Weather Station		1
2	Outside Sensor		1
3	Power Charger		1
4	User Manual		1
5	Button Function Manual		1

## 1.2 Weather Station Appearance



### Part A – Weather Station Front

A1: Remote Battery Signal (☞ 15th page)

A2: Remote Temperature (☞ 15th page)

A3: Remote Humidity (☞ 15th page)

A4: Remote Temperature Alert (☞ 12th page)

A5: Time/Calendar or Alarm time (☞ 8th–9th page)

A6: Moon Phase (☞ 11th page)

A7: Outside Channel (☞ 14th page)

A8: Forecast Trend (☞ 11th page)

A9: Barometric pressure (☞ 11th page)

A10: Histogram shows the atmospheric pressure (☞ 11th page)

A11: Indoor Humidity (☞ 15th page)

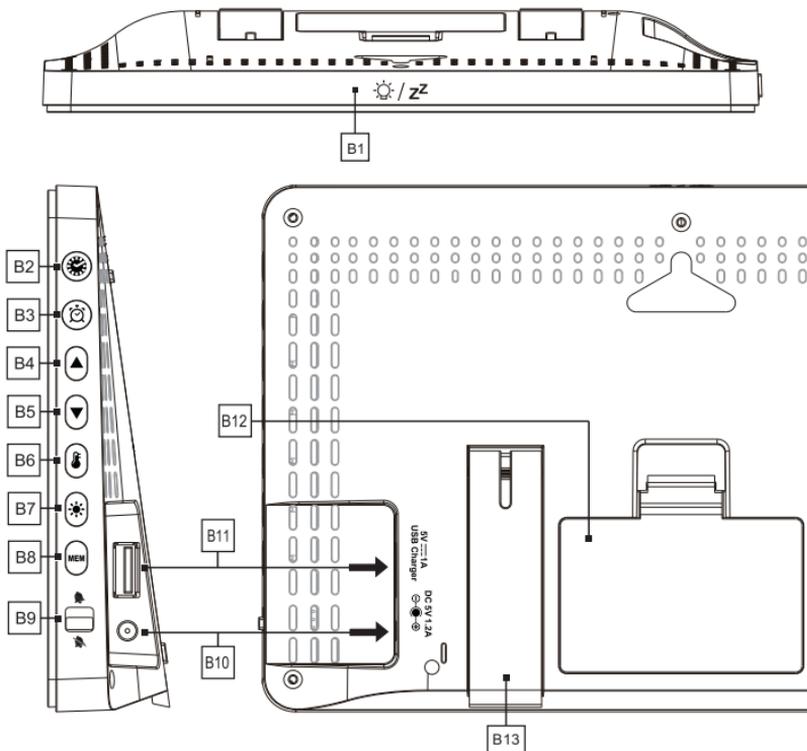
A12: Indoor comfort (☞ 13th page)

A14: Indoor Temperature (☞ 15th page)

A14: Weather Forecast (☞ 10th page)

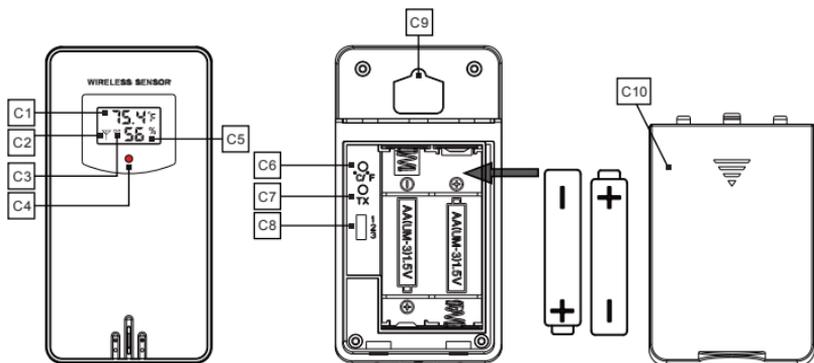
⚠ If the backlight turn off after 15s light when use power adapter supply, press “☀” button to light up. Repeat it again 7mins later if the button do not light on item.

⚠ Choose correct time zone ( P, M, C, E) to set time correctly.



## Part B – Weather Station Back

- B1: “☀/☾” touch field (☞ 6th page)
- B2: “🕒” button (☞ 8th page)
- B3: “🕒” button (☞ 10th page)
- B4: “▲” button (☞ 6th page)
- B5: “▼” button (☞ 6th page)
- B6: “🌡” button (☞ 12th page)
- B7: “☀” button (☞ 6th page)
- B8: “MEM” button (☞ 6th page)
- B9: Alarm on/off shift switch (☞ 10th page)
- B10: Power supply socket
- B11: USB charger output socket (☞ 15th page)
- B12: Battery compartment
- B13: Station table stand



## Part C – Wireless Outdoor Sensor

- C1: Remote sensor – Temperature
- C2: Remote transmission signal
- C3: Remote channel ( ➡ 14th Page)
- C4: Transmit signal LED
- C5: Remote sensor – Humidity
- C6: “ °C/°F ” switch button
- C7: “TX” reset button ( ➡ 14th page )
- C8: 3 channel select ( ➡ 14th page )
- C9: Remote wall mount hole
- C10: Battery compartment

**!** To make sure your remote sensor more accurate, put it away from direct rain, sunny or close to the place where will affect the sense result.

# 1.3 Button Function

Function Button	Normal Mode		Time Setting		Alarm Setting		Outdoor Temperature Alert Setting		Weather Forecast Setting	
	Press	Hold	Press	Hold	Press	Hold	Press	Hold	Press	Hold
 / ZZ B1	Backlight lit 15 seconds	Backlight lit 15 seconds	Backlight lit 15 seconds	Backlight lit 15 seconds	Backlight lit 15 seconds	Backlight lit 15 seconds	Backlight lit 15 seconds	Backlight lit 15 seconds	/	/
 B2	Switch Display of Calendar or Second	Time Setting	Confirm and Go Next Step	/	/	/	/	/	/	/
 B3	Switch Display of Calendar or Alarm	Alarm Setting	/	/	Confirm and Go Next Step	/	/	/	/	/
 B4	°C/°F Switch	Automatic Time Setting	Increase	Increase Continually	Increase	Increase Continually	Increase	Increase Continually	Go to Next Step	/
 B5	3 Channel Switch	Channel Searching	Decrease	Decrease Continually	Decrease	Decrease Continually	Decrease	Decrease Continually	Back to Last Step	/
 B6	Turn on/off Temperature Alert	Outdoor Temperature Alert Setting	/	/	/	/	/	/	/	/
 B7	Adjust Brightness of the Backlight in DC Mode	Weather Forecast Setting	/	/	/	/	/	/	Confirm Setting	/
MEM B8	View in-door/out-door Max/Min Data	Clear Max/Min Data	/	/	/	/	/	/	/	/
 B9	Slide up to switch on alarm, slide down to switch off alarm.									

## 2.1 Initial Operation

- The main unit of the hygrometer is powered by the power supply and battery (please use the original adapter when the power supply is used). When using battery power, pay attention to the polarity [“+” and “-” marks].
- Open the battery compartment cover of the wireless remote sensor, install batteries, and pay attention to the correct polarity (+ and - marks).
- After the main unit is powered on, all icons on the LCD display will light up for 3 seconds, you will hear a beep, and the weather station will start to detect the room temperature and humidity.
- After the indoor temperature and humidity detection is completed, the weather station will begin to establish a connection with the outdoor remote sensor (note: please keep the channel of the indoor host and remote control equipment consistent). Wait for about 3 minutes and the flashing receive RF icon “

## 2.2 Notice to customers before use

- In WWVB signal search mode, only the “/Z” and “▲” buttons will work, all other buttons will not work. Even if the adapter is plugged into a power source, the backlight does not stay on during this time. Press “▲” button to cancel WWVB signal search, all buttons and backlight will work.

## 03 IBACKLIGHT SETTING

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- If the product is powered by batteries, touch the “☉/zZ” field, backlight lights up 15 seconds.
- When plug in, the battery will automatically disconnect the power supply, and the backlight will always be bright. Press the “☉” button to adjust the brightness of the backlight, you can adjust the 5 state: 4 different brightness backlight and close the backlight. Users can choose according to the personal preferences of different brightness backlight or turn off the backlight. Turn off backlight when you can touch the “☉/zZ” field to light the backlight 15 second.

**Note:** If the backlight turn off after 15s light when use power adapter supply, press “☉” button to light up.

## 04 TIME, TIME ZONE AND CALENDAR SETTING

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### 4.1 Manual Time Setting

- Press once “☉” button, can switch the display calendar or second.
- Press and hold down the “☉” button for 3 seconds, the 12/24 hour mode display starts to flash. Now use “▲” and “▼” buttons to set the correct 12/24 hour mode.
- Press “☉” to confirm your setting, the Time Zones starts to flash. Now use “▲” and “▼” buttons set a correct time zone ( P, M, C, E ).
- Press “☉” to confirm your setting, the DSF display starts to flash. Now use “▲” and “▼” buttons to set the ON or OFF
- Press “☉” to confirm your setting, the Hour display starts to flash. Now use “▲” and “▼” buttons to set the correct hour.
- Press “☉” to confirm your setting, the Minute displays starts to flash. Now use “▲” and “▼” buttons to set the correct minute.
- Press “☉” button to confirm your setting, the Month and Date icon display starts to flash. Now use “▲” and “▼” buttons to set the date display on Month/Date or Date/Month.
- Press “☉” button to confirm your setting, the Year display starts to flash. Now use “▲” and “▼” buttons to set the correct year.
- Press “☉” button to confirm your setting, the Month display starts to flash. Now use “▲” and “▼” buttons to set the correct month.
- Press “☉” button to confirm your setting, the Date display starts to flash. Now use “▲” and “▼” buttons to set the correct date.
- Press “☉” to confirm your setting and to end the setting procedures.

## F.Y.I.:

- After 20 seconds without pressing any button, the clock switches automatically from Set Mode to Normal Time Mode.
- The time zone must be set correctly according to the weather station area, or when the time signal is received, the time will be incorrect

## 4.2 Automatic Time Setting

- The Weather Station automatically starts the WWVB Signal search up to 7 minutes of any restart or change of batteries. Or press and hold down the “▲” button for 2 seconds to manually start the WWVB signal search.
- The radio mast icon “” will flash showing it is searching for signal. Once the signal is found the Time and Date will be automatically set. If no signal is found within 7 minutes the radio mast icon will disappear and it will automatically start searching again in 1 hour.
- At 1:00 / 2:00 / 3:00am the Weather Station automatically carries out a synchronization procedure with the WWVB signal to correct any deviations to the exact time. If this synchronization attempt is unsuccessful (The radio mast symbol disappears from the display), the system will automatically attempt another synchronization at the next full hour. This procedure is repeated automatically up to 5 times.

## F.Y.I.:

- A flashing radio mast icon indicates that the WWVB signal reception has started.
- A continuously displayed radio mast icon indicates that the WWVB signal was received successfully.
- We recommend a minimum distance of 8 feet to all sources of interference, such as televisions or computer monitors.
- Radio reception is weaker in rooms with concrete walls (e.g.: in cellars) and in offices. In such extreme circumstances, place the system close to the window.
- During the RC receive mode, only the “/ZZ” and “▲” button function, other button operation have no function and backlight will not lighting. If you want to carry out other functions of operation, please press “▲” button to exit the RCC receiving mode.

## 5.1 Setting the Daily Alarm

- Press once “🕒” button, can switch the display calendar or alarm.
- Press and hold down “🕒” button for 2 seconds until Alarm Time hour display starts to flash. Use the “▲” and “▼” buttons to set the required hour.
- Press “🕒” button to confirm your setting, the Minute display starts to flash. Use the “▲” and “▼” buttons to set the required minute.
- Press “🕒” button to confirm your setting and to end the setting procedure.

### F.Y.I.:

- After 20 seconds without pressing any button the clock switches automatically from setting mode to Normal clock mode.

## 5.2 Switching ON/OFF the alarm signal

- The alarm shift switch is pushed in the “🔔” position, LCD display the “🔔” icon next to the date, the alarm function is open.
- Press back of the alarm shift switch is pushed in the “🔕” position, the “🔔” icon disappears, the alarm function is close.
- When alarm is ring, press any button except the “🕒/zZ” button to stop the alarm signal. It is not necessary to reactivate the alarm. It switches itself automatically to the alarm time which has already been set.

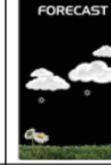
## 5.3 Snooze Function

- Touch the “🕒/zZ” field or press the “🕒/zZ” button the alarm signal sounds to get to SNOOZE mode. The alarm signal sounds again after approx. 5 minutes.

## 6.1 Weather Forecast

- This device calculates the weather forecast for the next 8 hours based on atmospheric pressure trends. Of course, this forecast cannot be compared with the forecast of professional weather services supported by satellites and high-performance computing equipment, but can only provide a rough indication of current developments. Consider the weather forecast for your local weather forecast service and the weather forecast for the weather station. If there is a discrepancy between the information on your device and the local weather forecast service, the latter's suggestion will prevail.

- The weather station displays the following weather icon for next 8 hours weather forecast not current weather:

					
Sunny	Slightly Cloudy	Cloudy	Rainy	Heavy Rainy	Snowy

## 6.2 Barometric Pressure Display

- The current barometric pressure is automatically shown on the Weather Station once it starts receiving readings.
- Press and hold the “☀️” button for 2 seconds to enter the air pressure unit and weather settings, the pressure units will be flashing display, Use the “▲” and “△” button to set the pressure unit to display in the “hPa/mb” or “inHg”.
- If the barometric pressure reading is below the minimum range, then LLLL will be displayed. If the barometric pressure reading is above the maximum range, then HHHH will be displayed.

## 6.3 Barometric Trend Display

- The weather station can display the barometric pressure trend.
- You may see the following displays next to the weather forecast icon:



The barometric pressure will rise.



The barometric pressure will remain constant.



The barometric pressure will fall.

# 07

## LUNAR PHASES AND TIDE INDICATOR

- The device displays 12 different moon phases according to the set calendar. During the new moon, the moon phase screen won't light up, and it won't light up until Waxing Moon.

							
New moon	Waxing half-moon	Half-moon	Waxing full moon	Full moon	Waning full moon	Half-moon	Waning half-moon



# TEMPERATURE, HUMIDITY AND COMFORT DISPLAY

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## 8.1 °C or °F temperature display

- The temperature is displayed either in °C or °F. Briefly pressing the “▲” button allows you to switch between the individual modes.

## 8.2 Current Temperature and Temperature Trend Display

- After you insert the batteries, the weather station measures the current temperature. The trend display shows a neutral temperature course . The further course of the trend display is determined as follows:
  - ◇ If, after an hour, the temperature is more than 1°C higher than the value measured first, then a positive course is displayed .
  - ◇ If, after an hour, the temperature is more than 1°C lower than the value measured first, then a negative course is displayed .
  - ◇ If the temperature does not change within an hour, then the upward or downward pointing arrow becomes a horizontal arrow. The measured temperature is then taken as the neutral value from which further prognoses are made.

## 8.3 Outdoor Temperature & Frost Alert Settings

- Press and hold down the “” button for 2 seconds until the icon for the Temperature Alert” starts to flash.
- The icon of Upper limit of the Temperature alarm starts to flash. Use the “▲” and “▼” buttons to set the required maximum temperature. Press “” to confirm your setting.
- The icon of the Lower limit of the Temperature alarm starts to flash. Use the “▲” and “▼” buttons to set the required minimum temperature. Press “” button to confirm your setting and to end the setting procedure.

### F.Y.I.:

- Before entering the setup, you must select the remote channel, different channels can set different temperature alarm range.

## 8.4 Activating and Deactivating Temperature & Frost Alert

- Press “” button to activate or deactivate the remote temperature alert, When the remote temperature alarm is activated, the temperature alarm icon is displayed in the remote sensor bar.

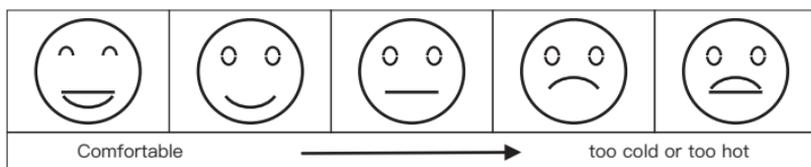
- When the remote channel temperature value exceeds the set temperature range, will activate the alarm, the weather station will every minute continuous alarm 5 times, at the same time, temperature alarm in alarm icon “” flashes, If the alarm activates the temperature that is currently displayed on the channel, its temperature value and alarm upper limit icon “” or lower limit icon “” also flashes.
- When the temperature of REMOTE SENSOR is  $+30^{\circ}\text{F}$  to  $+37^{\circ}\text{F}$  or  $-1^{\circ}\text{C}$  to  $+3^{\circ}\text{C}$ , the frost alarm will be activated, symbol “” flashing.

## F.Y.I.:

- When the temperature is higher than the upper limit of the alarm temperature setting, the activation of the upper limit alarm, symbol “” flashing.
- When the temperature is lower than the lower limit of the alarm temperature, the lower limit alarm is activated, and the symbol “” flashes.

## 8.5 Comfort display

- Indoor comfort level is calculated according to the indoor temperature and humidity, a total of 5 levels.



## 8.6 Current Humidity and Humidity Trend Display

- After you insert the batteries, the weather station measures the current relative humidity. The trend display shows a neutral relative humidity course . The further course of the trend display is determined as follows:
  - ◇ If, after an hour, the relative humidity is more than 5% higher than the value measured first, then a positive course is displayed .
  - ◇ If, after an hour, the relative humidity is more than 5% lower than the value measured first, then a negative course is displayed .
  - ◇ If the relative humidity does not change within an hour, the upward or downward pointing arrow becomes a horizontal arrow. The measured relative humidity is then taken as the neutral value from which further prognoses are made.

## 8.7 Maximum/Minimum Temperature and Humidity

- To view indoor/outdoor maximum, minimum temperature and humidity data, press the “MEM” button:
  - ◇ Once to show the maximum temperature and humidity values.
  - ◇ Twice to show the minimum temperature and humidity values.
  - ◇ Three times to return to the current temperature and humidity levels.
- To reset the maximum and minimum temperature and humidity, press and hold down the “MEM” button about 2 seconds. This will reset all minimum and maximum data recorded to the current displayed values.

### F.Y.I.:

- If the temperature reading is below ranges, the LL.L will be displayed. If the temperature reading is above ranges, the HH.H will be displayed.

## 8.8 Remote Sensor Transmission

- The weather station automatically starts receiving transmission from outdoor thermometer sensor for outdoor temperature & humidity after batteries inserted.
  - The outdoor sensor will automatically transmit temperature and humidity signal to the Weather Station after batteries inserted.
  - The weather station can connect up to 3 channel wireless sensor registration, the use of multiple wireless sensor, the wireless sensor channel cannot choose the same channel at the same time (a total of 1, 2, 3 channel can choose).
  - Press the “▼” key can switch the display of different channels of remote temperature and humidity, when displaying the symbol “”, will display the channel every 5 seconds automatically switch a channel.
- (1) If the weather station fails to receive the signal from the outdoor transmitter (“-” display on the LCD of the master station), press and hold the “▼” button for 3 seconds to manually receive the transmission signal, and press the outdoor transmitter transmitter’s “TX” button manually at the same time starts the outdoor unit’s signal transmission. After linking, please wait a few minutes. The transmitter value and the outdoor value of the host will be corrected simultaneously.
  - (2) If you have purchased a second outdoor transmitter, press the “▼” button to set the channel of the host to channel 2, and then press and hold the “▼” button until “-” appears in the “Remote Sensor” area.
  - (3) Slide the channel setting button of the outdoor transmitter to the second position and press the “TX” button of the outdoor transmitter to connect with the weather station.
  - (4) If there is a third, follow the same method to connect the third channel.

### F.Y.I.:

- When the wireless sensor set up different channels, the weather station “REMOTE SENSOR” also want to switch to the same channel. When there is no wireless sensor signal transmission on the channel, “--” will be displayed in the channel of the weather station.
- There is only 1 remote sensor included, please make weather station is stay in the same channel with remote sensor.

## 09 USB CHARGER

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- When you use USB charger to charging the electronic device, please make sure weather station is powered by main adapter, DO NOT use batteries only.

## 10 LOW BATTERY

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- If the battery icon “” appears the batteries in the outdoor sensor should be replaced as soon as possible.

## 11 PRODUCT SPECIFICATION

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- Indoor temperature measurement ranges: 15°F (-9.9°C) to 122°F (50°C)
- Outdoor temperature measurement ranges: -4°F (-20°C) to 140°F (60°C)
- Indoor & Outdoor measurable range: 20%RH ~ 95%RH
- Wall Mount or Table Stand
- 433.92MHz RF transmitting frequency
- 200 feet transmission range in an open area
- Weather station power supply:  
2 x AA (Not included) or Power Adapter (Included)
- Outside sensor supply:  
2 x AA (Not included)

## **SAFETY**

- ◆ This item can be used by children 8 years of age and above, as well as by persons with reduced physical, sensory, or mental capacities or lacking experience and knowledge, if they are supervised or have been instructed in the safe use of the item and understand the dangers that may arise.
- ◆ Children must not play with the item.
- ◆ Cleaning and user maintenance must not be carried out by children, unless they are 8 years of age or older and are being supervised.
- ◆ Batteries, when swallowed, can be life-threatening. Therefore, keep the product and battery out of reach of small children. If a battery is swallowed, medical assistance must be sought immediately.

## **RISK OF BATTERY LEAKAGE**

- ◆ In the event of a battery leak, immediately remove it from the device to prevent damage.
- ◆ Avoid contact with battery acid, thoroughly flush the affected area with plenty of clean water and seek immediate medical attention.
- ◆ Only use the same type of batteries, do not mix used and new batteries.
- ◆ Avoid extreme environmental conditions and temperatures as they may affect batteries e.g. above radiators.
- ◆ Remove the batteries from the device if they have not been used for a long period.

## **RISK OF EQUIPMENT DAMAGE**

- ◆ Only use the specified battery type.
- ◆ When inserting the battery ensure the correct polarity. This is shown in the battery compartment.
- ◆ If necessary, clean the battery and device contacts before inserting the battery.
- ◆ Promptly remove drained batteries from the product.
- ◆ Do not make any modifications to the item. Only allow repairs to be carried out at a specialist workshop. Repairs carried out incorrectly can considerably endanger the user.

## **GUARANTEE**

- ◆ The device has been manufactured to strict quality guidelines and meticulously examined before delivery. The company Newentor guarantees the warranty for this device is 1 year from the purchase date.

## DECLARATION OF CONFORMITY

◆ This product was manufactured in accordance with the harmonized European standards, you will find the declaration of conformity below:

◇ 2014/30/EU EMC Directive

◇ 2014/53/EU RED Directive

◇ 2011/65/EU RoHS Directive



## DISPOSAL



The packaging is made of environmentally friendly materials, which may be disposed through your local recycling facilities.



When your device has come to the end of its life, in the interest of environmental protection please do not throw it out with your household refuse, but take it to a suitable center where it can be disposed of properly.



All batteries must be handed in at a collection point in your community, suburb, or at the retailer. Such batteries can thus be disposed of in an environmentally friendly way.

**Technical support email:**  
**[service@newentor.com](mailto:service@newentor.com)**