

# Wittime

## Digital Wireless Thermometer & Hygrometer With High Precision Sensor

OPERATING INSTRUCTION



Base unit: WT2079

Wireless sensor: WT2022B



Remove the protective film from the display before use.

## **Safety**

Read the following advice carefully and store these operating instructions in case you want to reread something later. If you give the item to someone else, give them these operating instructions as well.

- This device may be used by children over 8 years of age and over, as well as by persons with reduced physical, sensory or mental abilities, or lack of experience and / or knowledge if they are supervised or instructed regarding the safe use of the equipment and have understood the resulting hazards.
- Keep the device and power adapter away from children under the age of 8.
- Cleaning and user maintenance may not be carried out by children unless they are supervised.
- Children must be supervised to make sure that they do not play with the device.
- The wireless base unit and power adapter must not be immersed in water or other liquids. Electric shock hazard! Do not use the base unit in areas where it may be wet, such as a sink.
- Only use the power adapter included in the delivery. The adapter must only be used in dry, indoor spaces and protected from moisture.
- The power cable cannot be replaced. If the cable or power adapter is damaged, they must be disposed of and replaced by a power adapter of the same type.



## **Danger from electricity (when using the power adapter)**

- Connect the device to a properly installed power socket with a voltage that corresponds to the Technical Data.
- Ensure that the socket is easily accessible, so that you can quickly remove the power adapter if necessary.
- Do not use the wireless base unit if the power adapter or power cable is damaged.
- Do not cover the power adapter with curtains, newspapers, etc. and ensure that it is sufficiently ventilated. The power adapter can become hot.
- Uncoil the power cable fully before connecting. Be careful not to damage the cable with sharp edges or hot objects.
- Remove the power adapter from the socket:
  - Before cleaning the wireless base unit,
  - When a fault occurs during operation,
  - During thunderstorms.
  - Always pull the power adapter, not the cable.
- Do not modify the items or the power cable. Only allow repairs to be carried out by a specialist workshop as improperly repaired devices endanger the user.

## **Unpacking and checking**

1. Remove the device from the packaging, remove all protective films and keep the packaging materials out of the reach of children.
2. Dispose of the materials separately according to type.
3. Check that all the items that should be included in the delivery are present and whether the base unit displays any damage.

## **Items included in the delivery**

- Base unit and wireless sensor
- 3 batteries - LR03 type (AAA) / 1.5 V  (base unit)
- 2 batteries - LR6 type (AA) / 1.5 V  (wireless sensor)
- Power adapter for base unit
- Operating instructions

## **Product functions**

### ***Base unit***

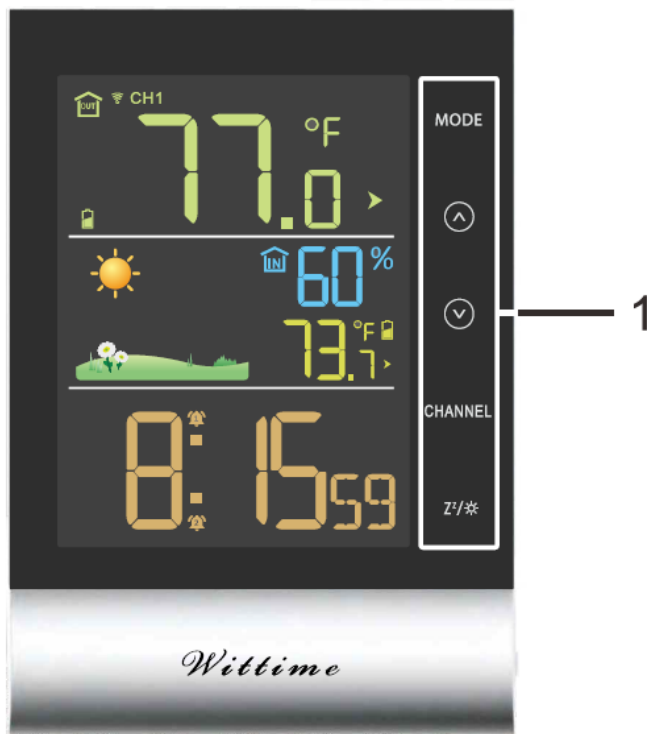
- High-definition color display
- 12- or 24-hour display
- Date, time and day of week display
- 2 alarms can be set, with snooze function
- Indoor temperature display in °C/°F
- Indoor humidity display
- Outdoor temperature display in °C/°F with up to three wireless sensors at different measurement sites (delivery includes one wireless sensor)
- Minimum/maximum display for temperature and humidity
- Indoor and outdoor temperature trend display
- Weather forecast symbols in Sunny, Partly sunny, Cloudy, Rainy, Heavy rain, Snow and Heavy snow. (It is possible to manually change the symbols for the prediction)
- Low battery indicator
- Battery or power mains operation
- Adjustable backlight (Bright >> Muted >> Off) when operated by power adaptor

### ***Wireless sensor***

- Range of up to 328 ft (100 meters) (in open area)
- Wall mounting bracket

## Overview of the thermometer & hygrometer




### *Base unit – front*



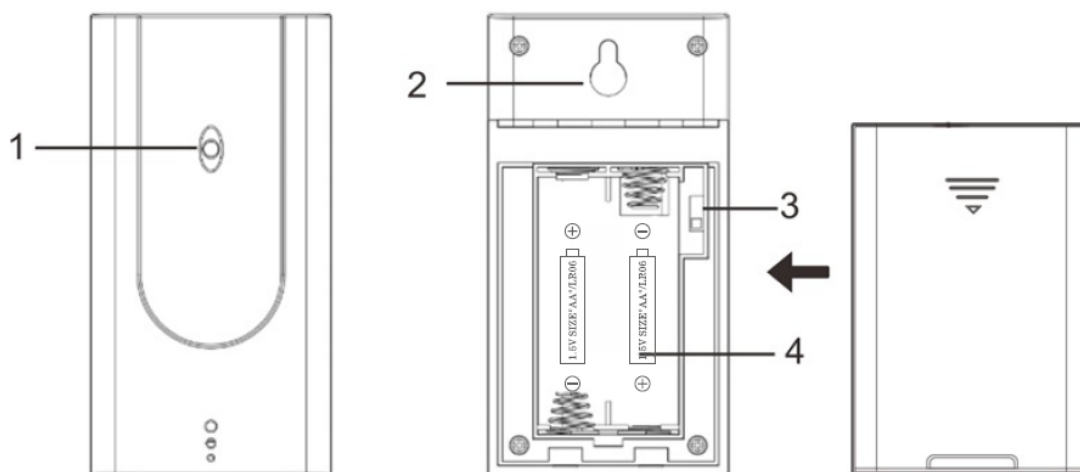
### *Base unit – Back & Side*



## ***Operating elements and parts of the base unit***

1	Operating buttons
	<b>Button <b>MODE</b></b> <ul style="list-style-type: none"><li>* Display alarm time</li><li>* Activate settings mode</li><li>* Save changes to settings</li></ul>
	<b>Button  (Up)</b> <ul style="list-style-type: none"><li>* Set values (increase)</li><li>* Display stored MAX and MIN values</li><li>* Activate/Deactivate alarm (on alarm mode)</li></ul>
	<b>Button  (Down)</b> <ul style="list-style-type: none"><li>* Set values (decrease)</li><li>* Display: Time, year, month, date and day of week</li><li>* Activate/Deactivate alarm (on alarm mode)</li></ul>
	<b>Button <b>CHANNEL</b></b> <ul style="list-style-type: none"><li>* Display weather data from various wireless sensors ( channel 1.2.3 and automatic)</li><li>* Reconnect wireless sensor connection</li></ul>
	<b>Button  (Snooze/light)</b> <ul style="list-style-type: none"><li>* Illuminate backlight</li><li>* Activate snooze function (when the alarm sounds)</li><li>* Activate setting mode for weather symbol</li></ul>
2	Loop for hanging
3	Power adaptor port
4	Battery compartment
5	Detachable stand

## ***Wireless sensor***



1	Red pilot light
2	Loop for hanging
3	Sliding switch 1 2 3: Set sensor number (transmission channel)
4	Battery compartment

If you wish to use only the wireless sensor included in the delivery, as a general rule, the transmission channel does not need to be changed.

This is only necessary if you wish to use additional wireless sensors; see “Using additional wireless sensors”.

## **Initial setup**

Follow the instructions in the order described and first put the batteries in the wireless sensor. This is the only way for the device to function without any problems. Do not press any buttons while switching the device on.

## ***Wireless sensor***

1. Remove the battery compartment cover on the back of the wireless sensor.
2. Insert 2 LR6 (AA) / 1.5 V batteries facing in the direction indicated on the bottom of the battery compartment. Make sure that the poles of the batteries are correct (+/-). As soon as the wireless sensor is receiving power, the red pilot light will light up and thus display that data is being transmitted to the base unit.
3. Put the battery compartment cover back in place.
  - Do not use batteries that have a voltage that is too low (only 1.2 V instead of 1.5 V). This affects the accuracy of the measurements, among other things.


- If possible, use alkaline batteries instead of zinc-carbon batteries. Alkaline batteries last longer, particularly outside in low temperatures.

## ***Using addition wireless sensors***

The device comes with one wireless sensor. However, you can operate it with up to three wireless sensors. Additional wireless sensors are available via our online shop.

- The wireless sensors can be located in different rooms or outdoors.
- Every sensor must be assigned its own sensor number (= number of the transmission channel) (1 to 3).
- For the snow and frost warning, the base unit only analyses the information from the sensor with the lowest number (by default 1). If only one sensor is connected to channel 1, 2 or 3, the display will function on all 3 channels.

Procedure:

1. Remove the battery compartment cover on the back of the wireless sensor.
2. Set a different sensor number for each wireless sensor with the sliding switches.
3. Put the battery compartment cover back in place on the wireless sensors. If adding another sensor later or after changing the batteries:
4. Press and hold the **CHANNEL** button on the base unit until the radio frequency symbol  flashes. The base unit will now retrieve the weather information from all available wireless sensors.

## ***Base unit***

You can operate the wireless base unit using the power adapter or with batteries. If the base unit is connected to a power socket, it will be operated using the power mains, even if there are batteries in the device. Remove depleted batteries from the battery compartment, as they can leak.

### ***A) Power mains operation***

ATTENTION

Use only the power adapter included in the delivery for power mains operation.

1. Insert the power adapter included in the delivery into the base unit port.
2. Plug the power adapter into a socket that corresponds to the voltage listed in the Technical Data.
3. Wait several minutes. The base unit needs this time to collect all the weather data.




## ***B) Battery operation***

1. Open the battery compartment cover.
2. Insert 3 LR03 (AAA) / 1.5 V batteries facing in the direction indicated on the bottom of the battery compartment. Make sure that the poles of the batteries are correct (+/-).
3. Put the battery compartment cover back in place and close it.
4. Wait several minutes. The base unit needs this time to collect all the weather data.

**Information:** The device will lose all information when switching it on again.


## **Set weather symbol manually**

After the base unit power on, the weather symbol will flash on the display.

1. Set the appropriate weather symbol with the  and  buttons.
2. Press the  button to select.







**Information:** The weather symbol will only be automatically displayed 24 hours later.

## **Radio frequency signal connection**

After weather symbol selected, radio frequency symbol  will flash on the display and the device will start to receive RF signal from wireless sensor for 3 minutes, the corresponding outdoor temperature value will be displayed.

If NOT received successfully, press and hold the **CHANNEL** button to reconnect.

## **Setting the time and date manually**

1. Press and hold the **MODE** button until the display for the year begins to flash.
2. Set the year with the  and  buttons.
3. Press **MODE** to store the setting. The date format will flash on the display.
4. Set the date format with the  and  buttons (Month/Day or Day/Month).
5. Press **MODE** to store the setting.
6. Continue as described:
  - Set a value with  and .
  - Store a setting with **MODE**.
7. Set the following settings one after another:
  - Month
  - Day



- Hours
  - Minutes
  - 12/24 Hour format (in the 12-hour format, the afternoon hours are shown with “PM” on the display)
  - DST ON/OFF (If on, DST will be shown on the display)
  - Temperature unit (°C or °F)
  - Language (only refers to how the days of the week are displayed)
8. Then press **MODE** to store the changed setting.

**Information:** Press and hold  or  button, the value will increase or decrease fast.

## **Choosing the location**

### ATTENTION

- Protect the base unit and wireless sensor from dust, shocks, extreme temperatures and direct sunlight.
- Protect the base unit from moisture. Only place the base unit in a dry, enclosed space.
- The wireless sensor is protected against moisture but must be protected against water, e.g. rain.

## ***General***

The base unit and wireless sensor exchange information over a radio frequency. For this reason, the location is important for the range of the wireless connection. Note:

- The maximum distance between the base station and wireless sensor is 328 ft (100 meters). However, this range is only possible in open area.
- Shielding building materials such as reinforced concrete reduce or prevent the radio reception between the base station and wireless sensor.
- Devices such as televisions, cordless phones, computers and fluorescent tubes can also interfere with the wireless reception.
- Do not place the base unit and wireless sensors directly on the floor. This restricts the range.
- In low temperatures in winter the battery performance of the wireless sensors can be significantly reduced. This reduces the transmitter range.

## ***Base unit***

DANGER

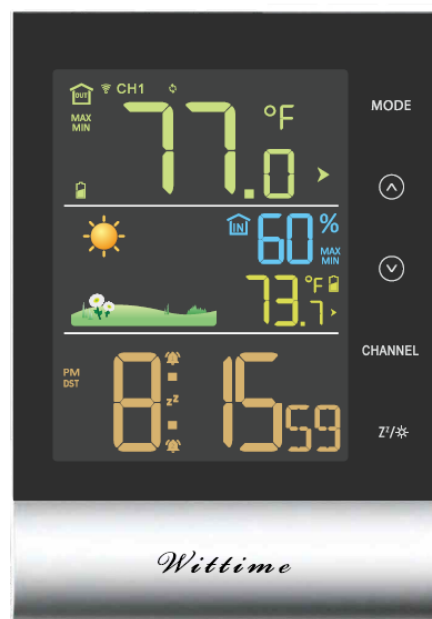
When installing the device on a wall, there must be no electrical cables, gas or water pipes in the wall at the installation site. Otherwise there is a risk of electric shock!

- You can put the base unit on the desk or hang it up.


### ***Wireless sensor***

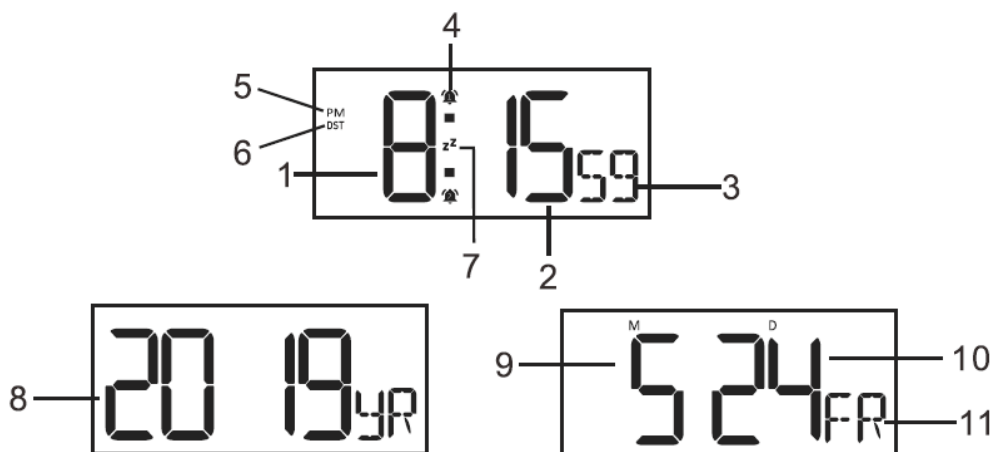
- Place or hang the wireless sensor in a place where it is protected from direct weather (rain, sun, wind, etc.). Suitable locations include e.g. under a porch or in a carport.

### **Display indicators**



### ***Time function***





Press the  button to switch: Time, year, month, date and day of week display.



1	Hour	6	Daylight saving time (DST)
2	Minute	7	Snooze symbol
3	Second	8	Year
4	Alarm symbol	9	Month
5	PM symbol	10	Date
11	Languages (only refer to day of week)		



## ***Alarm function***

The base unit allows you to set two different alarm times. For example, you can set an alarm for the morning and for after an afternoon nap by activating both alarm times.







1. Use the **MODE** button to select the desired alarm time (A1 or A2).
2. Hold and press the **MODE** button for approx. 2 seconds once you have chosen the desired alarm time. The hour indicator of the alarm time (A1 or A2) will flash.
3. Set the desired hour for the alarm with the  and  buttons.
4. Press **MODE** to store the setting. The minute indicator will flash on the display.
5. Set the desired minute for the alarm with the  and  buttons.
6. Press **MODE** to store the setting. The alarm time is set and activated.

## ***Switching the alarm on and off***







Use the **MODE** button to switch the alarm 1 or alarm 2.

Use the  or  button to switch the alarm on and off.

On ALARM 1:

- press  or  once:  on the display, A1 is activated
- press  or  twice:  disappear, A1 is deactivated

On ALARM 2:

- press  or  once:  on the display, A2 is activated
- press  or  twice:  disappear, A2 is deactivated

## ***Stopping the alarm***

You will be woken by the alarm at the set time, and the sound will become more and more intense as the alarm continues.

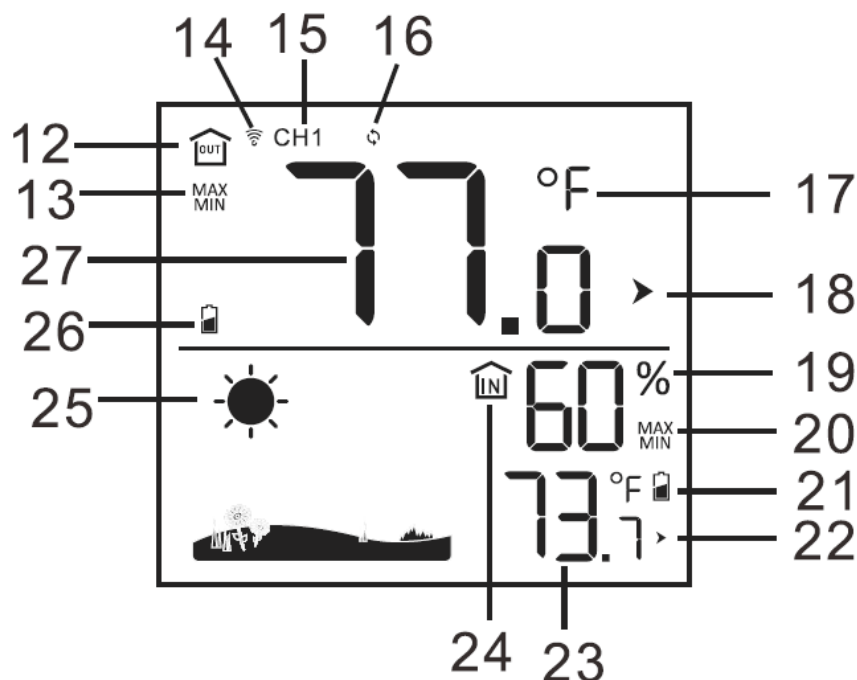
- *Snooze* - Press the  $Z^Z/\text{☀}$  button to stop the alarm for approx. 5 minutes.
- *Switch off the alarm completely* - Press any button on the base unit (apart from  $Z^Z/\text{☀}$ ), to stop the alarm. The alarm will go off again after 24 hours.
- *Automatic stop function*- If you do not press any buttons, the alarm will automatically switch off after 2 minutes. The alarm will go off again after 24 hours.

## ***Snooze function***

Press the  $Z^Z/\text{☀}$  button once when the alarm sounds.


The alarm signal is paused for approx. 5 minutes, and the alarm symbol and **zZ** symbol will flash on the display. Afterwards, the alarm will sound and wake you up again. You can repeat this process multiple times.

## **Weather information**




12	Outdoor symbol	20	Stored maximum and minimum values for indoor temperature and humidity
13	Stored maximum and minimum values for outdoor temperature	21	Indoor low battery indicator

14	Radio frequency signal reception symbol	22	Indoor temperature trend
15	Current transmission channel to the base unit	23	Indoor temperature
16	Transmission channel automatic switching mode	24	Indoor symbol
17	Temperature unit: °C or °F	25	Weather symbol
18	Outdoor temperature trend	26	Outdoor low battery indicator
19	Indoor humidity	27	Outdoor temperature

The highest and lowest temperature and humidity values by repeatedly pressing the  button.



- press once: the maximum values are shown
- press again: the minimum values are shown
- press again: returns to normal display

Press and hold the  button to delete the highest and lowest temperature and humidity values.

**Information:** It also has an ice alert. For more information about this, see ice alert section.

## ***Weather trend***

For the temperature and humidity values measured by the base unit and the wireless sensor, the trend is displayed in the form of an arrow:

Trend	rising	constant	falling
Temperature			
Humidity			

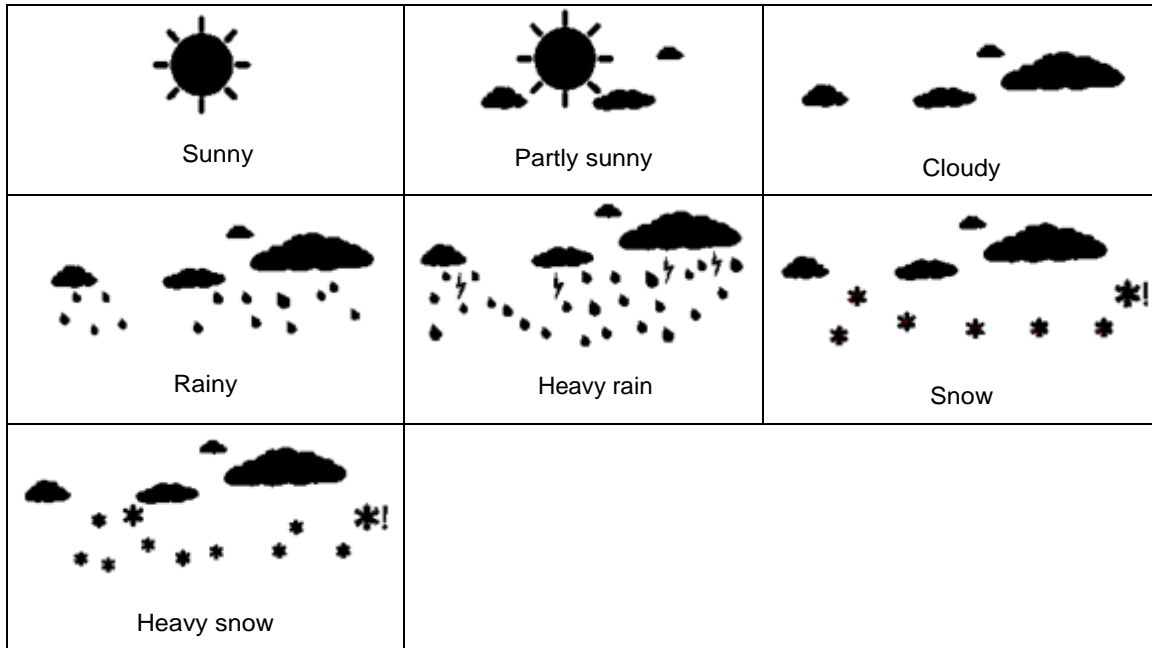
## ***Weather forecast***

After setting up initially, the weather forecast can not be used for about 12 hours, as the device needs this time to collect and evaluate the weather data.

The weather forecast is a result of the collected data and the measured changes in air pressure.

The forecast refers to the area around the device with a radius of about 30 to 50 km for the next 12 to 24 hours.

The accuracy of the weather forecast is around 75 %.



**Ice alert** - If the wireless sensor measures a temperature between 33.8 °F and 30.2°F, there is a risk of frost and a snowflake symbol ❄️! will flash. If the temperature falls below 30.0°F for an extended period of time, the snowflake symbol will be constantly displayed. Note: Even if the ice alert is not displayed, when the temperature is around freezing point, there is generally always a risk of frost and/or black ice. The outdoor sensor can only measure the local temperature in the place where it is installed.

**Information:** Only applies if more than one wireless sensor is in use: For the temperature alarm, the wireless sensor with the lowest sensor number is always analysed.

### ***Languages of day of week***

The language options are English (EN), German (GE), French (FR), Italian (IT), Spanish (SP), Dutch (DU) and Danish (DA).

LANGUAGE \ WEEK	EN	FR	GE	SP	DU	JA	IT
MONDAY	MO	LU	MO	LU	MA	MA	LU
TUESDAY	TU	MA	DI	MA	DI	TI	MA
WEDNESDAY	WE	ME	MI	MI	WO	ON	ME
THURSDAY	TH	JE	DO	JU	DO	TO	GI
FRIDAY	FR	VE	FR	VI	VR	FR	VE
SATURDAY	SA	SA	SA	SA	ZA	LO	SA
SUNDAY	SU	DI	SO	DO	ZO	SO	DO

## ***DST function***

The device will adapt to winter / summer time automatically if DST switches ON.

*Summer time:* the second Sunday of March at 1:59 59' changes to 3:00 00'

*Winter time:* the first Sunday of November at 1:59 59' changes to 1:00 00'

## ***Switching the light on***

### ***A) Battery operation***

Press any buttons to light up the display for 10 seconds.


### ***B) Power mains operation***

When the base unit is powered through the power adapter, the display is constantly illuminated.

Press the  $Z^2/\odot$  button repeatedly to select the following settings for the display illumination:  
Bright >> Muted >> Off.

## ***Low battery indicator***

For the base unit and the wireless sensor, there is a separate low battery indicator.

When the low battery symbol  is shown on the display, you have to replace the batteries in the base unit or the wireless sensor with new batteries.

Note:

- The low battery symbol for the wireless sensor shows that the batteries need changing for the channel number shown.
- When you change the batteries all the settings are lost.
- Always exchange all batteries and only use those listed in the 'Technical Data'.
- Even if the base unit is being powered by the power mains, you should still remove any empty batteries present from the base unit.
- Make sure that the poles of the batteries are correct (+/-) when inserting.
- Clean the battery and device contacts if necessary before inserting.
- Dispose of the old batteries in an environmentally manner

## **Troubleshooting**

Problem	Possible cause and remedy
Display screen not working.	Check the batteries in main unit are inserted or power adaptor is plugged in correctly
The temperature from the sensor seems to be too high.	- Check if the sensor is exposed to direct sunlight.
The display shows HH, LL, HH.H or LL.L instead of measured values for temperature or humidity.	- The values are above or below the measuring range, see Technical Data. * Indoor temperature: Below 14.2°F, "LL.L" will display; Over 122°F, "HH.H" will display. * Indoor humidity: Below 1%, "1%" will display; Over 99%, "99%" will display.
The base unit is not receiving any signal from the wireless sensor.	- Make sure that there are no electrical sources of disturbance near the wireless sensor or the base unit. - Check the batteries in the sensor. - Start the search for the wireless sensor manually: Press and hold the <b>CHANNEL</b> button on the base unit until the display for the weather information flashes - Move the base unit closer to the sensor or vice versa.
The display is illegible, the function is not clear or the values are clearly wrong.	- Reset the device to the factory settings



## ***Cleaning***

1. When operating using the power mains: Remove the power adapter plug from the base unit.
2. Wipe the base unit with a slightly damp cloth when required.
3. Dry off the device completely before connecting it with the power adapter again.

## **Technical Data**

### ***Base unit***

Model: WT2079

Power consumption: 5.0V , 150 mA

Power supply: 3 x LR03 (AAA) / 1.5 V

Temperature measuring range: 14.2°F ~ 122°F

Resolution: 0.2°F

Humidity measuring range: 1 % to 99 % relative humidity

Humidity measuring accuracy: +/- 1 %

Resolution: 1 %

### ***Wireless sensor***

Model: WT2022B

Batteries: 2 x LR6 type (AA) 1.5 V

Temperature measuring range: - 40°F to 158°F

Protection type: IPX4: Protection against splash water from all directions

Humidity measuring accuracy: +/- 1%

Transmission frequency: 433.92 MHz

Range: max. 328 ft (100 meters) (in open area)

### ***Power adapter***

Input: 120VAC 60Hz 50mA 7W

Output: 5.0VDC 150mA

As our products are constantly evolving and improving, changes in the design and technology are possible.

## **FCC Statement**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation

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

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## **Disclaimers**

Manufacturer reserves the right to change specifications of the product.

Manufacturer and supplier are not responsible for malfunction where interference occurs.