

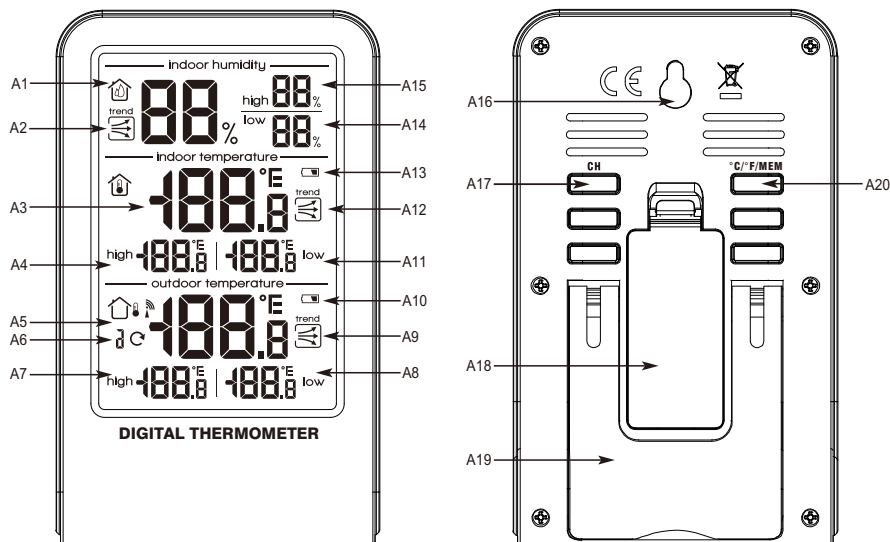
WIRELESS DIGITAL THERMOMETER

manual

Model:810-012

1.Parts Description

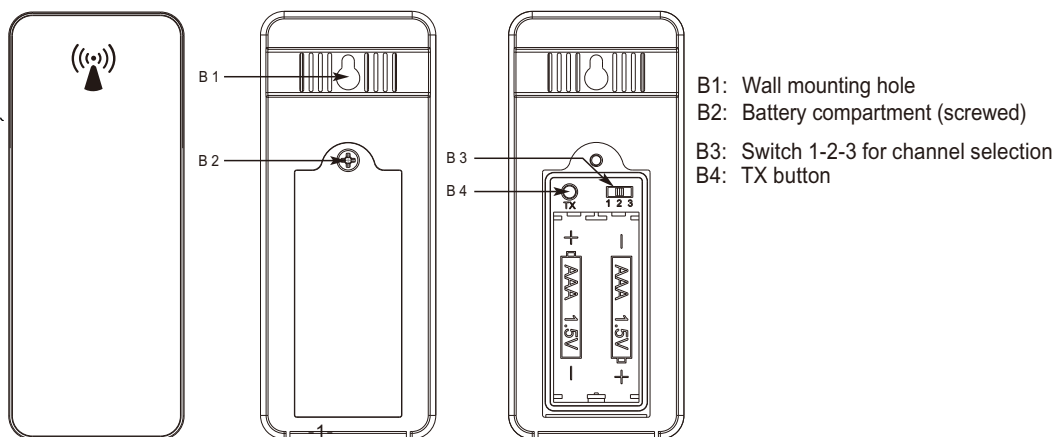
Fig. 1: Receiver



- A1: Indoor humidity
- A2: Indoor humidity trend
- A3: Indoor temperature
- A4: Maximum interior temperature
- A5: Outdoor temperature
- A6: Channel number
- A7: Maximum outdoor temperature
- A8: Outside minimum temperature
- A9: Outdoor temperature trend
- A10: Transmitter low battery symbol

- A11: Minimum interior temperature
- A12: Indoor temperature trend
- A13: Receiver low battery symbol
- A14: Minimum indoor humidity
- A15: Maximum indoor humidity
- A16: Wall mounting hole
- A17: CH button
- A18: Battery cover
- A19: Vertical stand
- A20: °C / °F / MEM button

Fig. 2: Transmitter



- B1: Wall mounting hole
- B2: Battery compartment (screwed)
- B3: Switch 1-2-3 for channel selection
- B4: TX button

2. Before using the device

- Please make sure to read the instruction manual carefully.
This information will help you to familiarise yourself with your new device, to learn all of its functions and parts, to find out important details about its first use and how to operate it and to get advice in the event of a malfunction.
- Following and respecting the instructions in your manual will prevent damage to your instrument and loss of your statutory rights arising from defects due to incorrect use.
- We shall not be liable for any damage occurring as a result of non following of these instructions.
Likewise, we take no responsibility for any incorrect readings and for any consequences which may result from them.
- Please take particular note of the safety advice!
- Please keep this instruction manual for future reference.

3.Scope of delivery

- Wireless digital thermometer (Receiver)
- Outdoor transmitter (CH1)
- Instruction manual

4.Specifications

- Measuring range indoors: Temperature $-10^{\circ}\text{C}\sim+60^{\circ}\text{C}$ ($14^{\circ}\text{F}\sim140^{\circ}\text{F}$) Humidity 20%~95%;
- Measuring range outdoors: Temperature $-40^{\circ}\text{C}\sim+70^{\circ}\text{C}$ ($-40^{\circ}\text{F}\sim158^{\circ}\text{F}$);
- Accuracy: Temperature $\pm 1^{\circ}\text{C}$ (2°F) between 0°C to 50°C , otherwise $\pm 2^{\circ}\text{C}$ (4°F), Humidity $\pm 5\%$;
- Power Consumption: Receiver 2 X 1,5V AAA(not include), Transmitter 2 X 1,5V AAA(not include);
- Transmission distance: 60m in free field;
- Transmission frequency: 433MHz;
- Transmission time: CH1:50 seconds CH2:53 seconds CH3:56 seconds;
- Low battery index: 2.6V;
- Maximum and minimum temperature and humidity display.

5. For your safety

- This product is exclusively intended for the field of application described above. It should only be used as described within these instructions.
- Unauthorized repairs, modifications or changes to the product are prohibited.



Caution! Risk of injury:

- Keep these instruments and the batteries out of the reach of children.
- Batteries must not be thrown into a fire, short-circuited, taken apart or recharged. Risk of explosion!
- Batteries contain harmful acids. Low batteries should be changed as soon as possible to prevent damage caused by leaking.
- Never use a combination of old and new batteries together, nor batteries of different types.
- Wear chemical-resistant protective gloves and safety glasses when handling leaking batteries.



Important information on product safety!

- Do not place your device near extreme temperatures, vibrations or shocks.
- Protect it from moisture.
- The outdoor transmitter is protected against splash water, but is not watertight. Choose a shady and dry position for the outdoor transmitter.

6. First steps


6.1 Inserting the batteries in the receiver

- Place both instruments on a desk with a distance of approximately 1.5 meter. Avoid getting close to possible interference sources (Electronic devices and radio installations).
- Remove the protective foil from the display of the receiver.
- Remove the battery cover and insert two new batteries 1,5V AAA, polarity as illustrated, Close the battery compartment again.
- The device will alert you with a beep and all LCD segments will be displayed for a short moment, and then display indoor temperature and humidity.

6.2 Inserting the batteries in the outdoor transmitter

- Open the screwed battery compartment of the outdoor transmitter.
- The slide switch for channel selection is at position 1 (default).
- Insert two new batteries 1,5 V AAA, polarity as illustrated.
- Close the battery compartment again.

6.3 Reception of the outdoor values

- The outdoor values of the outdoor transmitter will be transmitted to the receiver. The displays of the outdoor values are flashing "--.-".
- On the display of the receiver appear the channel number, the outdoor temperature in °C (default).
- If the reception of the outdoor values fails within three minutes, "- -" appears on the display. Check the batteries of the transmitter and try it again. Check if there is any source of interference.
- You can also start the outdoor transmitter search manually later on (for example when the outdoor transmitter is lost or the batteries are changed).
- Hold the CH button on the receiver for three seconds, "---" and  symbol appears on the display and flashing..
- Press the TX button in the battery compartment of the outdoor transmitter.
- After successful installation close the battery compartment of the outdoor transmitter carefully.

7. Thermometer and hygrometer

- If the measure values above the range, then temperature display "HH.H", humidity display "HH%".
- If the measure values below the range, then temperature display "LL.L", humidity display "LL%".

7.1 Maximum/Minimum function

- The indoor humidity and temperature and outdoor temperature maximum and minimum display on the screen.
- Hold °C/°F/MEM button for three seconds while the maximum or minimum values are displayed to clear the recorded readings.

7.2 Setting of the temperature unit


- In the normal mode you can change between °C (Celsius) or °F (Fahrenheit) as temperature unit.
- Press the °C/°F /MEM button.

7.3 Temperature and humidity trend function

- Temperature trendIndicators
 - ↗ indicates rising temperature readings (temperature gone up more than 2 degrees in an hour)
 - indicates steady temperature readings
 - ↘ indicates falling temperature readings (temperature gone down more than 2 degrees in an hour)
- Humidity trendIndicators
 - ↗ indicates rising humidity readings (humidity gone up more than 1% in an hour)
 - indicates steady humidity readings
 - ↘ indicates falling humidity readings (humidity gone down more than 1% in an hour)

8. Additional transmitters

- For having more than one additional outdoor transmitter select with the 1/2/3 switch in the battery compartment of the outdoor transmitter for each single outdoor transmitter a different channel. The reception of the new transmitter will be transmitted automatically to the receiver. Press and hold the CH button on the receiver or restart the receiver according to the manual.

- The outdoor values will be shown on the display of the receiver. If you have installed more than one outdoor transmitter, press the CH button on the receiver to change between the channels 1 to 3.
- You can also choose an alternating channel display. After the third channel, press the CH button again. The cycle display symbol  will be displayed.
- Press the CH button again to deactivate the alternating channel and the first outdoor transmitter will be shown permanently.
- Once registered outdoor transmitters (channels), which are no longer needed, can be deleted manually by pressing the CH button for three seconds. Once a new outdoor transmitter is received, there will be another indicator.

9. Positioning and configuration of receiver and transmitter

- With the foldable leg at the back of the receiver, the receiver can be placed onto any flat surface or wall mounted at the respective location by the hanging holes at the back of the unit. Avoid the vicinity of any interfering field like computer monitors or TV sets and solid metal objects.
- With the hanging hole at the back of the outdoor transmitter, the transmitter can be wall mounted at the respective location. Choose a shady and dry position for the outdoor transmitter. (Direct sunshine falsifies the measurement and continuous humidity strains the electronic components needlessly).
- Check the transmission of the signal from the outdoor transmitter to the receiver (transmission range of up to 60 m free field). Within ferro-concrete rooms (basements, superstructures), the received signal is naturally weakened.
- If necessary choose another position for the outdoor transmitter and/or receiver.


10. Maintenance

- Clean the devices with a soft damp cloth. Do not use solvents or scouring agents.
- Remove the batteries and pull out the power adapter of the socket, if you do not use the products for a long period of time.
- Keep the devices in a dry place.

10.1 Battery replacement

- Change the batteries of the outdoor transmitter, when the battery symbol appears on the display of the outdoor values.
- Change the batteries of the basic station, when the battery symbol appears on the display of the indoor values.
- **Please note:** When the batteries are changed, the contact between outdoor transmitter and receiver must be restored, so always insert new batteries into both devices or start a manual transmitter search.

11. Common problems

Pro	Solution
No indication at the receiver	→ Ensure that the batteries polarity are correct → Change the batteries
No reception of the outdoor transmitter Indication "--" for channel 1/2/3	→ No outdoor transmitter is installed → Check batteries of external transmitter (do not use rechargeable batteries!) → Restart the outdoor transmitter and the basic station according to the manual → Start the outdoor transmitter search manually according to the manual → Choose another place for the outdoor transmitter and/or the receiver → Reduce the distance between the outdoor transmitter and the receiver → Check if there is any source of interference
Incorrect indication or low power symbol display 	→ Change the batteries

12. Disposal

This product has been manufactured using high-grade materials and components which can be recycled and reused.



Never dispose of empty batteries and rechargeable batteries in household waste. As a consumer, you are legally required to take them to your retail store or to an appropriate collection site depending on national or local regulations in order to protect the environment.

The symbols for the heavy metals contained are: Cd=cadmium, Hg = mercury; Pb=lead

This instrument is labelled in accordance with the EU Waste Electrical and Electronic Equipment Directive (WEEE).



Please do not dispose of this instrument in household waste. The user is obligated to take end-of-life devices to a designated collection point for the disposal of electrical and electronic equipment, in order to ensure environmentally-compatible disposal.