

# WIRELESS 868 MHz TEMPERATURE STATION

## Instruction Manual

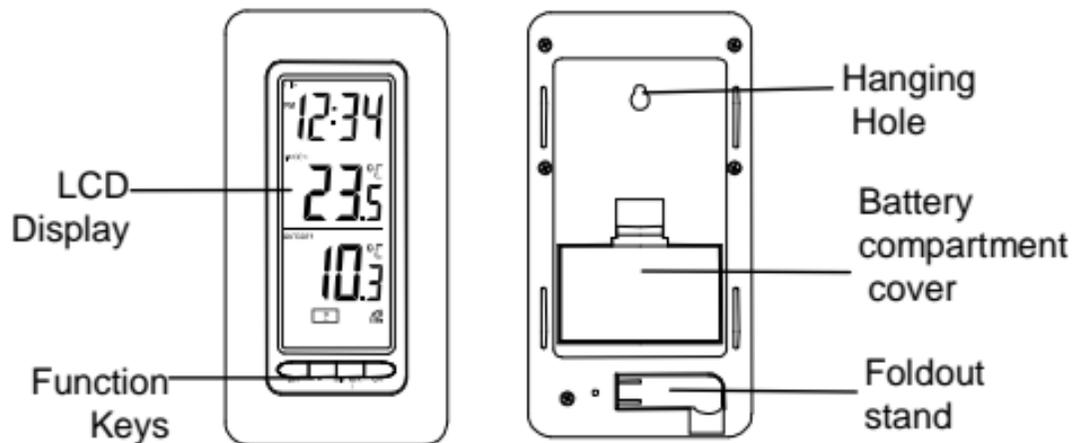
### INTRODUCTION:

Congratulations on purchasing this tiny Temperature Station which displays the time, indoor temperature, and outdoor temperature readings. With only **four** easy to use keys, this product is ideal for use in the home or office.

**« Instant Transmission+ » is the up and coming state-of-the-art new wireless transmission technology, exclusively designed and developed by LA CROSSE TECHNOLOGY. "IT +" offers you an immediate update of all your outdoor data measured from the transmitters: follow your climatic variations in real-time!**



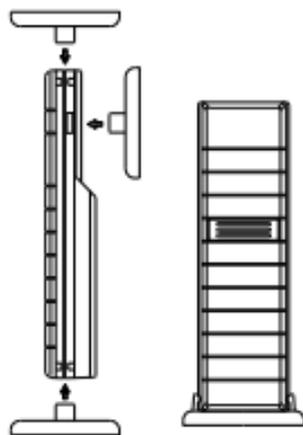
## FEATURES:



### The Temperature Station

- Quartz clock in 12 or 24-hour time display (hour and minute, manually set)
- Indoor and outdoor temperature reading in degree Celsius (°C) or Fahrenheit (°F)
- Minimum and Maximum records of indoor temperature and outdoor temperature

- Can receive up to three outdoor transmitters
- Wireless transmission at 868 MHz
- Signal reception intervals at 4 seconds
- Low battery indicator
- Wall mounting or table standing (foldout table stand included)



### The Outdoor Temperature Transmitter

- Remote transmission of outdoor temperature to **Temperature Station** by 868 MHz
- Shower proof casing
- Wall mounting case (Mounting at a sheltered place. Avoid direct rain and sunshine)

## SETTING UP:

### When one transmitter is used:

1. First, insert the batteries into the transmitter (see “**How to install and replace batteries in the Temperature transmitter**” below).
2. Within 30 seconds of powering up the transmitter, insert the batteries to the Temperature Station (see “**How to install and replace batteries in the Temperature Station**” below). Once the batteries are in place, all segments of the LCD will light up briefly. Then the indoor temperature and the time as 0:00 will be displayed. If they are not shown on LCD after 60 seconds, remove the batteries and wait for at least 60 seconds before reinserting them. Once the indoor data is displayed, user may proceed to the next step.
3. After the batteries are inserted, the Temperature Station will start receiving data signal from the transmitter.
4. [The outdoor temperature should be displayed on the Temperature Station.](#) Also, the signal reception icon will be displayed. If this does not happen after 1 minute, the batteries will need to be removed from both units and reset from step 1.
5. In order to ensure sufficient 868 MHz transmission, the final position between the Temperature Station and the transmitter should not be more than 100 meters (see notes on “**Positioning**” and “**868 MHz Reception**”).

### When more than one transmitter is used

1. User shall remove all the batteries from the temperature station and transmitters and wait 60 seconds if setting has been done with one transmitter before.
2. Insert the batteries to the first transmitter.
3. Within 30 seconds of powering up the first transmitter, insert the batteries to the Temperature Station. Once the batteries are in place, all segments of the LCD will light up briefly. **Then the indoor temperature and the time as 0:00 will be displayed.** If they are not shown in LCD after 60 seconds, remove the batteries and wait for at least 60 seconds before reinserting them.
4. **The outdoor temperature from the first transmitter (channel 1) should be displayed** on the Temperature station. Also, the signal reception icon will be displayed. If this does not happen after **40 seconds**, the batteries will need to be removed from both units and reset from step 1.
5. Insert the batteries to the second transmitter within 10 seconds after the temperature station successfully receives the signal of the first transmitter.
6. **The outdoor temperature** from the second transmitter and the "channel 2" icon should then be displayed on the Temperature station. If this does not happen after **40 seconds**, the batteries will need to be removed from all the units and reset from step 1.
7. Insert the batteries to the third transmitter within 10 seconds after the temperature station successfully receives the signal of the second transmitter.

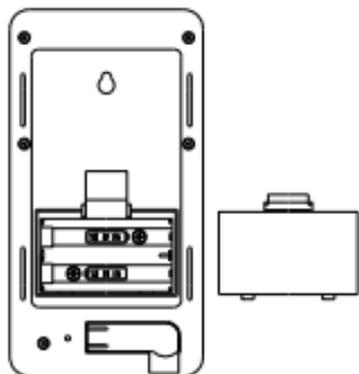
8. Then within **40 seconds**, the channel 3 outdoor data from the third transmitter will be displayed and the channel icon will shift back to "1" once the third transmitter is successfully received. If this is not happen, user shall restart the setting up from step 1.

**Note:**

After the three transmitters have been set up, user may need to check the readings displayed on the temperature station against those being shown on the transmitter displays, in order to recognise on which channel each transmitter is being presented.

**IMPORTANT:**

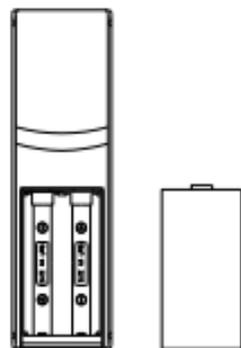
Transmission problems will arise if the setting for additional sensors is not followed as described above. Should transmission problems occur, it is necessary to remove the batteries from all units and start again the set-up from step 1.



## HOW TO INSTALL AND REPLACE BATTERIES IN THE TEMPERATURE STATION

The Temperature Station uses 2 x AAA, IEC LR3, 1.5V batteries. When batteries will need to be replaced, the low battery icon will appear on the LCD. To install and replace the batteries, please follow the steps below:

1. Lift up the battery compartment cover.
2. Insert batteries observing the correct polarity (see marking).
3. Replace compartment cover.



## HOW TO INSTALL AND REPLACE BATTERIES IN THE TEMPERATURE TRANSMITTER

The Temperature transmitter uses 2 x AA, IEC LR6, 1.5V batteries. When batteries will need to be replaced, the low battery icon will appear on the LCD of the Temperature Station. To install and replace the batteries, please follow the steps below:

1. Remove the battery compartment cover.
2. Insert the batteries, observing the correct polarity (see marking).
3. Replace the battery holder to the unit.

**Note:**

In the event of changing batteries in any of the units, **all** units need to be reset by following the setup procedures. This is because a random security code is assigned by the transmitter at start-up and this code must be received and stored by the Temperature Station in the first few minutes of power supplying.

**BATTERY CHANGE:**

It is recommended to replace the batteries in all units every **12** months to ensure optimum accuracy of these units.



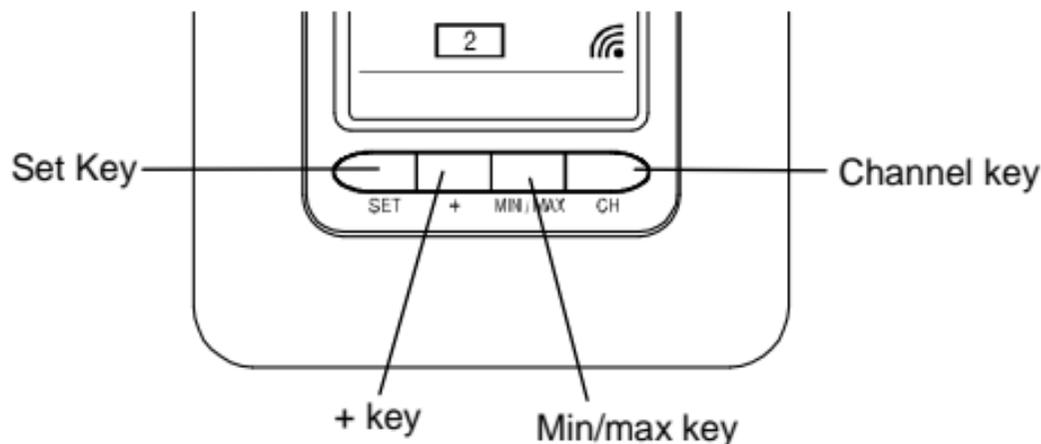
**Please participate in the preservation of the environment. Return used batteries to an authorised depot.**



## FUNCTION KEYS:

### Temperature Station:

The Temperature Station has only **four** easy to use function keys.



### Set key (Setting)

- Press and hold for about 3 seconds to enter the Manual setting mode. This key provides the following functions: 12/24 hour display, Manual time setting

### **min/max key (Min/ Max temperature)**

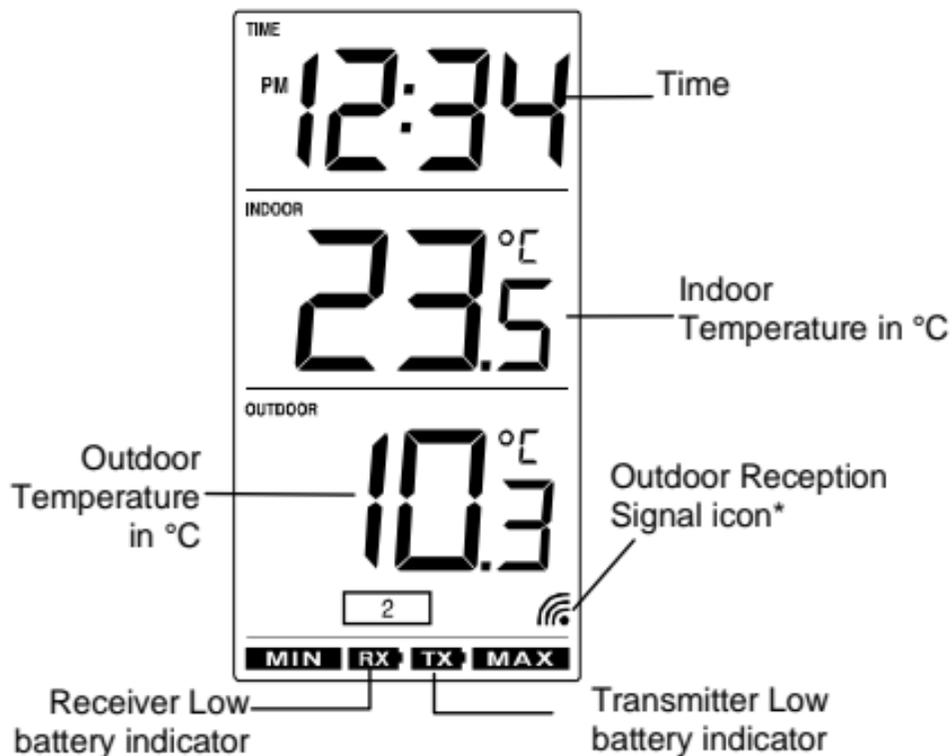
- Used to toggle between the minimum and maximum recorded readings of indoor & outdoor temperature.
- Press and hold to reset minimum and maximum record when min or max record is shown.

### **+ key (Plus)**

- To make adjustment for manual setting.

### **Ch key (Channel)**

- To toggle between the Outdoor transmitters 1, 2 and 3 (if more than 1 transmitter is used)
- Before pressing the min/max key, user should press this key first in order to view the minimum and maximum indoor temperature, minimum and maximum outdoor temperature, and the current value in the next channel.



## LCD Screen and settings:

\*When the signal is successfully received by the temperature station, this icon will be switched on. (If not successful, the icon will not be shown in LCD) So the user can easily see whether the last reception was successful (icon on) or not (icon off). On the other hand, the short blinking of the icon shows that a reception is being done now.

For better distinctness the LCD screen is split into 3 sections displaying the information for time, indoor temperature, and outdoor temperature.

### **Section 1 - TIME**

- Display of time.

### **Section 2 - INDOOR TEMPERATURE**

- Display of indoor temperature

### **Section 3 - OUTDOOR TEMPERATURE**

- Display of the outdoor temperature.

## **MANUAL SETTING:**

### **12 / 24- HOUR TIME DISPLAY SETTING AND TEMPERATURE UNIT (°C/°F) SETTING**

User may choose to display the time in 12-hour or 24-hour mode:

#### **Note:**

When the time display is set as 12-hour mode, the temperature unit will be fixed to °F; when the time mode is in 24-hour, the temperature unit will be fixed to °C.

1. In normal display mode, press and hold the **set** key for about 3 seconds. The "12h" or "24h" digit will be flashing.
2. Press the **+** key to set the desired time display mode.
3. Press shortly the **set** key to advance to the **MANUAL TIME SETTING**.

### **MANUAL TIME SETTING**

User shall manually set the time of Temperature Station by the following steps:

1. The hour digit of the time display will be flashing.
2. Press the **+** key to adjust the hour (Press and hold to allow fast advancing). Press **set** key to confirm and go to the minute setting.
3. The minute digit will be flashing. Press the **+** key to adjust the minute (Press and hold to allow fast advancing). Press **set** key once more to return to normal display.

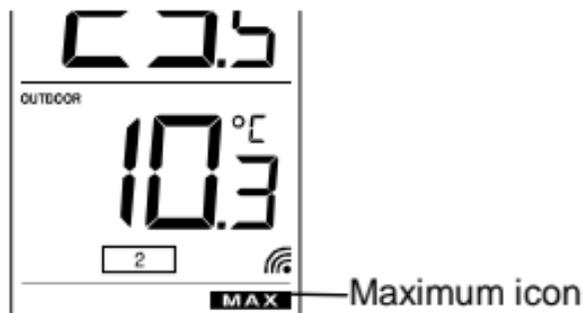
### **VIEWING THE MINIMUM AND MAXIMUM READINGS:**

User may view the minimum and maximum indoor temperature, minimum and maximum **outdoor temperature data** records by the following steps:

1. Press the **min/max** key once to view the minimum indoor temperature, minimum **outdoor temperature**.



2. Press the **min/max** key once more to view the maximum indoor temperature, maximum **outdoor temperature**.



### **VIEWING THE MINIMUM AND MAXIMUM READINGS OF THE NEXT CHANNEL:**

User can choose to view the minimum and maximum indoor temperature, minimum and maximum outdoor temperature of the other channels. To view the readings of the next channel, user should make the following steps:

1. Press the ch key to change the channel.
2. Press the min/max key once to view the minimum indoor temperature, minimum outdoor temperature in the next channel.
3. Press the min/max key once more to view the maximum indoor temperature, maximum Outdoor temperature in the next channel.

### **RESETTING THE MINIMUM AND MAXIMUM READINGS:**

User may reset the minimum and maximum temperature data to the current value by the following steps:

1. Press the **min/max** key once to display the min data.
2. Press and hold the **min/max** key for about 3 seconds to reset the indoor and outdoor temperature of the three channels to the current values in a single action. All outdoor and indoor temperature records will be reset at the same time.
3. Only the current value in the corresponding channel will be shown after resetting. User desiring to

view the current value in the next channel should press the ch key once.

### **TEMPERATURE TRANSMITTER:**

The outdoor temperature is measured and transmitted to the Temperature Station every 4 seconds approximately.

The range of the Temperature Transmitter may be affected by the temperature. At cold temperatures, the transmitting distance may be decreased. Please bear this in mind when placing the transmitter.

### **868 MHz RECEPTION CHECK**

The Temperature Station should receive the temperature data within few minutes after set-up. If the temperature data is not being received about 2 minutes after setting up (the display shows “- - -” after consecutive failures in receiving signal for times), please check the following points:

1. The distance of the Temperature Station or transmitter should be at least 1.5 to 2 meters away from any interfering sources such as computer monitors or TV sets.
2. Avoid positioning the Temperature Station onto or in the immediate proximity of metal window frames.

3. Using other electrical products such as headphones or speakers operating on the same signal frequency (868MHz) may prevent correct signal transmission and reception.
4. Neighbours using electrical devices operating on the 868MHz signal frequency can also cause interference.

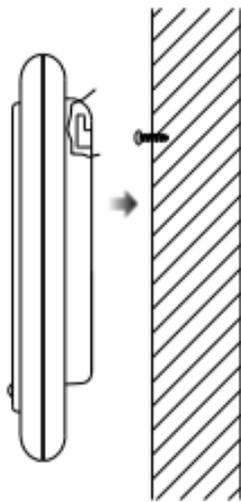
**Note:**

When the 868MHz signal is received correctly, do not re-open the battery cover of either the transmitter or Temperature station, as the batteries may spring free from the contacts and force a false reset. Should this happen accidentally then reset all units (see **Setting up** above) otherwise transmission problems may occur.

The transmission range is about 100 m from the transmitter to the Temperature Station (in open space). However, this depends on the surrounding environment and interference levels. If no reception is possible despite the observation of these factors, all system units have to be reset (see **Setting up**).

## **LOW BATTERY INDICATOR**

Low battery indicators are displayed on the LCD when the batteries require changing.



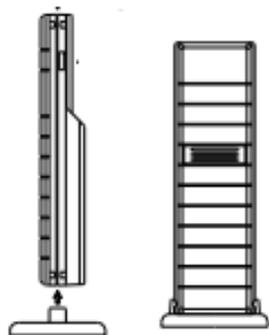
### **POSITIONING THE TEMPERATURE STATION:**

The Temperature Station comes attached with foldout table stand, which provides the option of table standing or wall mounting the unit. Before wall mounting, please check that the outdoor temperature values can be received from the desired locations.

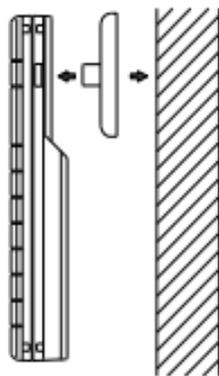
To wall mount:

1. Fix a screw (not supplied) into the desired wall, leaving the head extended out the by about 5mm.
2. Hang the temperature station onto the screw. Remember to ensure that it locks into place before releasing.

## POSITIONING THE TEMPERATURE TRANSMITTER:



The Transmitter is supplied with a holder that may be attached to a wall with the two screws supplied. The Transmitter can also be position on a flat surface by securing the stand to the bottom to the Transmitter.



### To wall mount:

1. Secure the bracket onto a desired wall using the screws and plastic anchors.
2. Clip the remote temperature sensor onto the bracket.

**Note:**

Before permanently fixing the transmitter wall base, place all units in the desired locations to check that the outdoor temperature reading is receivable. In event that the signal is not received, relocate the transmitters or move them slightly as this may help the signal reception.

**CARE AND MAINTENANCE:**

- Extreme temperatures, vibration and shock should be avoided as these may cause damage to the unit and give inaccurate forecasts and readings.
- When cleaning the display and casings, use a soft damp cloth only. Do not use solvents or scouring agents as they may mark the LCD and casings.
- Do not submerge the unit in water.
- Immediately remove all low powered batteries to avoid leakage and damage. Replace only with new batteries of the recommended type.
- Do not make any repair attempts to the unit. Return them to their original point of purchase for repair by a qualified engineer. Opening and tampering with the unit may invalidate their guarantee.
- Do not expose the units to extreme and sudden temperature changes, this may lead to rapid changes in forecasts and readings and thereby reduce their accuracy.

## SPECIFICATIONS:

### Temperature measuring range

Indoor : -9.9°C to +59.9°C/ 14.2°F to 139.8°F with 0.1°C resolution  
("OF.L" displayed if outside this range)

Outdoor : -39.9°C to +59.9°C/ 39.8°F to 139.8°F with 0.1°C resolution  
("OF.L" displayed if outside this range)

Indoor Temperature checking interval : every 15-second

Outdoor data checking interval : every 4 second

### Power Supply

Temperature Station : 2 x AA, IEC LR6, 1.5V

Outdoor Temperature Transmitter : 2 x AA, IEC LR6, 1.5V

Battery life cycle : approximately 24 months (Alkaline batteries recommended)

### Dimensions (L x W x H)

Temperature Station : 80 x 29.4 x 150 mm

Outdoor Temperature Transmitter : 38.2 x 21.2 x 128.3 mm

**LIABILITY DISCLAIMER:**

The electrical and electronic wastes contain hazardous substances. Disposal of electronic waste in wild country and/or in unauthorized grounds strongly damages the environment.

Please contact your local or/and regional authorities to retrieve the addresses of legal dumping grounds with selective collection.

All electronic instruments must from now on be recycled. User shall take an active part in the reuse, recycling and recovery of the electrical and electronic waste.

The unrestricted disposal of electronic waste may do harm on public health and the quality of environment.

As stated on the gift box and labeled on the product, reading the "User manual" is highly recommended for the benefit of the user. This product must however not be thrown in general rubbish collection points. The manufacturer and supplier cannot accept any responsibility for any incorrect readings and any consequences that occur should an inaccurate reading take place.

This product is designed for use in the home only as indication of the temperature.

This product is not to be used for medical purposes or for public information.

The specifications of this product may change without prior notice.

This product is not a toy. Keep out of the reach of children.

No part of this manual may be reproduced without written authorization of the manufacturer.



**R&TTE Directive 2014/53/EU**

Summary of the Declaration of Conformity : We hereby declare that this wireless transmission device does comply with the essential requirements of R&TTE Directive 2014/53/EU.