

**TEMPERATURE AND HUMIDITY WEATHER STATION**  
**Model WS9123IT Instruction Manual**

**!!Please read carefully before operating!!**

**INTRODUCTION:**

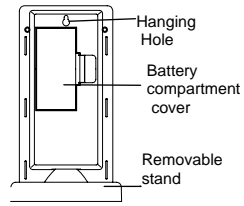
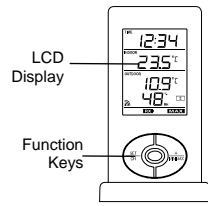
Congratulations on purchasing this tiny 915MHz Temperature and Humidity Weather Station which displays the time, indoor temperature, and up to three outdoor temperatures and humidity readings. With only two easy to use keys, this product is ideal for use in the home or office.

« 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!



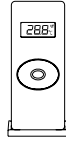
**FEATURES:**

**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)  
Outdoor humidity reading in %RH  
Can receive up to three outdoor transmitters  
Minimum and Maximum records of indoor temperature, outdoor temperature and outdoor humidity  
Low battery indicator  
Table standing or wall mountable

**The Outdoor Thermo-Hygro Transmitter**



Remote transmission of outdoor temperature and humidity to Temperature Station by 915 MHz signals  
Displays alternately the measured temperature and humidity readings on LCD  
Shower proof casing  
Wall mounting case. Mounting at a sheltered place. Avoid direct rain and sunshine.

**SETTING UP:**

**When one transmitter is to be used**

1. First, insert the batteries to the transmitter (see "**How to install and replace batteries in the Thermo-hygro transmitter**" below).
2. Within 2 minutes 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. Following the indoor temperature and the time as 12:00 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. 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. The outdoor temperature and humidity should then be

displayed on the Temperature station. If this does not happen after 2 minutes, the batteries will need to be removed from both units and reset from step 1.

4. In order to ensure sufficient 915 MHz transmission however, this should under good conditions be a distance no more than 100 metres between the final position of the Temperature Station and the transmitter (see notes on "Positioning" and "915 MHz Reception").

**When more than one transmitter is to be 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 2 minutes 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. Following the indoor temperature and the time as 12:00 will be displayed. If they are not displayed in the LCD after 60 seconds, remove the batteries and wait for at least 60 seconds before reinserting them.

4. The outdoor temperature and humidity from the first transmitter (channel 1) should then be displayed on the Temperature station. Also, the signal reception icon will be displayed. If this does not happen after 2 minutes, the batteries will need to be removed from both units and reset from step 1.
5. Insert the batteries to the second transmitter as soon as the outdoor temperature and humidity readings from the first transmitter are displayed on the temperature station.

**Note:** User shall insert the batteries into the second transmitter within 30 seconds of reception of the first transmitter.

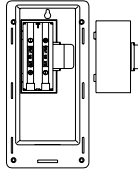
6. The outdoor temperature and humidity from the second transmitter and the "channel 2" icon should then be displayed on the Temperature station. If this does not happen after 2 minutes, the batteries will need to be removed from all the units and reset from step 1.
7. Insert the batteries to the third transmitter as soon as the "channel 2" icon and outdoor data are displayed on the temperature station. Then within 2 minutes, 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 does not happen, user shall restart the setting up from step 1.

**Note:** User shall insert the batteries into the third transmitter within 30 seconds of reception of the second transmitter.

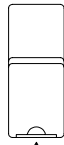
#### HOW TO INSTALL AND REPLACE BATTERIES IN THE TEMPERATURE STATION

The Temperature Station uses 2 x AAA, IEC LR3, 1.5V batteries. When batteries 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 THERMO-HYGRO TRANSMITTER



The Thermo-hygro transmitter uses 1 x CR2032, 3.0V Lithium battery. When the battery needs 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. Unload the battery holder at the bottom of the transmitter.
2. Insert the battery, 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 at least every 12 months to ensure optimum accuracy of these units.

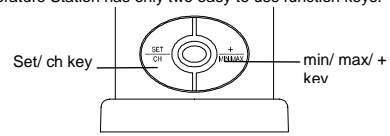


**Please participate in the preservation of the environment.  
Return used batteries to an authorised depot.**

**FUNCTION KEYS:**

**Temperature Station:**

The Temperature Station has only two easy to use function keys.



**Set/ch key (Setting/Channel)**

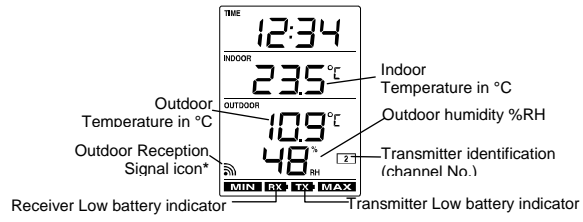
Press and hold for about 3 seconds to enter the Manual setting mode.

Used to toggle between the data of different outdoor transmitters (channel "1", "2" and "3", when more than 1 transmitter is used.

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

Used to toggle between the minimum and maximum recorded readings of indoor & outdoor temperature and outdoor humidity.

LCD SCREEN AND SETTINGS:



\*When the signal is successfully received by the temperature station, the Outdoor reception 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 flashing 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 data.

**Section 1 - TIME**

Display of time.

**Section 2 - INDOOR TEMPERATURE**

Display of indoor temperature

### **Section 3 - OUTDOOR TEMPERATURE AND OUTDOOR HUMIDITY**

Display of the outdoor temperature and humidity.

#### **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/ ch key for about 3 second. The "12h" or "24h" digit will be flashing.

2. Press the min/max/+ key to set the desired time display mode.
3. Press shortly the set key to advance to the **MANUAL TIME SETTING**.

**MANUAL TIME SETTING**

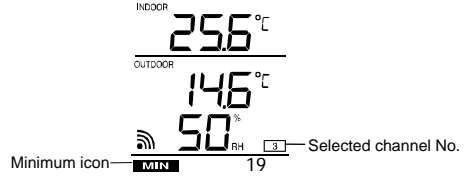
User shall manually set the time of Temperature Station by the following steps:

1. The hour digit of the time display will be flashing.
2. Press the min/max/+ key to adjust the hour. Press set key to confirm and go to the minute setting.
3. The minute digit will be flashing. Press the min/max/+ key to adjust the minute. Press set key once more to return to normal display.

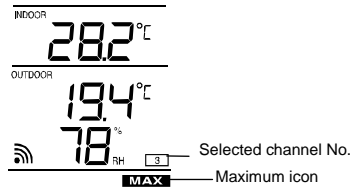
**VIEWING THE MINIMUM AND MAXIMUM READINGS:**

User may view the minimum and maximum temperature and humidity data records of the indoor or outdoor channels by the following steps:

1. In normal display, press set/ch key to choose the desired channel (transmitter).
2. Press the min/max/+ key once to view the minimum indoor temperature, minimum outdoor temperature and minimum outdoor humidity of the selected channel.



3. Press the min/max/+ key once more to view the maximum indoor temperature, maximum outdoor temperature and maximum outdoor humidity of the selected channel.



**RESETTING THE MINIMUM AND MAXIMUM READINGS:**

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

1. Press and hold the min/max/+ key for about 3 seconds to reset all the minimum/maximum data of all channels and the indoor sensor to the current values in a single action.

**THERMO-HYGRO TRANSMITTER:**

The outdoor temperature and humidity are measured and transmitted every 16 seconds. The range of the Thermo-Hygro 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.

**915 MHz RECEPTION CHECK**

The Temperature Station should receive the temperature and humidity data within a few minutes after set-up. If the temperature and humidity data is not being received 5 minutes after setting up (the display shows "--" after consecutive failures in receiving signal), please check the following points:

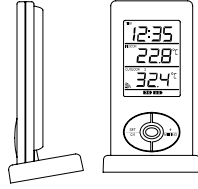
1. The distance of the Temperature Station or transmitter should be at least 1.5 to 2 metres away from any interfering sources such as computer monitors or TV sets.
2. Avoid positioning the Temperature Station onto or in the immediate proximity of metal window frames.
3. Using other electrical products such as headphones or speakers operating on the same signal frequency (915MHz) may prevent correct signal transmission and reception.

4. Neighbours using electrical devices operating on the 915MHz signal frequency can also cause interference.

**Note:**

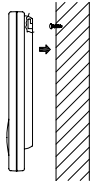
When the 915MHz signal is received correctly, do not re-open the battery cover of either the transmitter or Temperature station, as the batteries may spring free from the contacts and force a false reset. Should this happen accidentally then reset all units (see **Setting up** above) otherwise transmission 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**).

**POSITIONING THE TEMPERATURE STATION:**



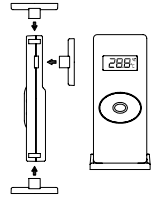
The Temperature Station comes with detachable stand, which provides the option of table standing the unit in addition to wall mounting. Before wall mounting, please check that the outdoor temperature values can be received from the desired locations.

**To wall mount:**



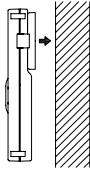
1. Fix a screw (not supplied) into the desired wall, leaving the head extended out by about 5mm.
2. Hang the Temperature Station onto the screw. Remember to ensure that it locks into place before releasing.

**POSITIONING THE REMOTE TEMPERATURE TRANSMITTER:**



The remote temperature transmitter can be placed onto any flat surface or wall mounted using the bracket which doubles as a stand or wall mount base.

**To wall mount:**



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

**Note:**

The mounting surface can affect the transmission range. If, for instance, the unit is attached to a piece of metal, it may then either reduce or increase the transmitting range. For this reason, we recommend not to place the unit on any metal surfaces or in any position where a large metal or highly polished surface is in the immediate vicinity (garage doors, double glazing, etc.). Before securing in place, please ensure that the Temperature Station can receive the 915MHz signal from the temperature transmitter at the positions that you wish to place them.

**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 with 0.1°C resolution ("OFL" displayed if outside this range)  
Outdoor : -39.9°C to +59.9°C with 0.1°C resolution ("OFL" displayed if outside this range)

Outdoor Humidity measurement : 1 to 99% (Displays "1%" when 1%; displays "99%" when 99%)

Indoor Temperature checking interval : every 15 seconds

Outdoor data checking interval : every 16 seconds

Power consumption

Temperature Station : 2 x AAA, IEC LR3, 1.5V

Outdoor Temperature Transmitter : 1 x CR2032, 3.0V

Battery life cycle (Alkaline batteries recommended):  
Temperature Station : approximately 24 months  
Outdoor Temperature Transmitter : approximately 12 months  
Dimensions (L x W x H)  
Temperature Station : 58.2 x 17.6 x 118.4 mm  
Outdoor Temperature Transmitter : 36.6 x 13.5 x 87.9 mm

**LIABILITY DISCLAIMER:**

Please ensure that all discarded packaging and unwanted electrical items are discarded in a correct and responsible manner. All recyclable material should be deposited at relevant recyclable waste collection points.

As stated on the gift box and labelled 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 and other weather data. 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.

This product is guaranteed for the period of 12 months from date of purchase against failure to operate correctly to its listed specifications due to any manufacturing defects.

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