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WIRELESS 915 MHz TEMPERATURE STATION

Instruction Manual

INTRODUCTION

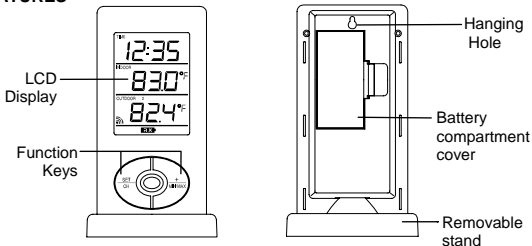
Congratulations on purchasing this compact 915MHz Temperature Station which displays time, indoor temperature and outdoor temperature readings. With two easy to use keys, this product is ideal for use in the home or office.

This product offers:



INSTANT TRANSMISSION is the state-of-the-art new wireless transmission technology, exclusively designed and developed by LA CROSSE TECHNOLOGY. ***INSTANT TRANSMISSION*** offers you an immediate update (every 16 seconds!) of all your outdoor data measured from the transmitters: follow your climatic variations in real-time!

FEATURES



The Temperature Station

- Quartz clock with 12 or 24-hour time display (hour and minute, manually set)
- Indoor and outdoor temperature reading in Fahrenheit (°F) or Celsius (°C)
- Can receive up to three outdoor transmitters
- Wireless transmission at 915 MHz
- Signal reception intervals at 16 seconds
- Minimum and Maximum records of indoor and outdoor temperature
- Low battery indicator
- Wall mounting or table standing (removable table stand included)

The Outdoor Temperature Transmitter

- Remote transmission of outdoor temperature to Temperature Station by 915 MHz transmission
- Water resistant casing
- Wall mounting and table-standing

SETTING UP:

When one transmitter is used

1. First, insert the batteries to the transmitter (see **“How to install and replace batteries in the Temperature 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 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. 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 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, there should be a distance of no more than 330 feet between the final position of the Temperature Station and the transmitter (see notes on **“Positioning”** and **“915 MHz Reception”**).

Using Multiple Sensors with One Temperature Station

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 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 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 readings from the first transmitter are displayed on the temperature station.

Note: User shall insert the batteries into the second transmitter within 45 seconds of reception 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 2 minute, 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 is not happen, user shall restart the setting up from step 1.

Note: User shall insert the batteries into the third transmitter within 45 seconds of reception of the second transmitter.

8. In order to ensure sufficient 915 MHz transmission however, this should under good conditions be a distance no more than 100 meters between the final position of the Temperature Station and

the transmitter (see notes on “**Positioning**” and “**915 MHz Reception**”).

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.
- If the signal reception is not successful on the first frequency (915MHz) for 14 seconds, the frequency is changed to 920MHz and the learning is tried another 14 seconds. If still not successful the reception is tried for 14 seconds on 910MHz. This will also be done for re-synchronization.

HOW TO INSTALL AND REPLACE BATTERIES IN THE TEMPERATURE STATION

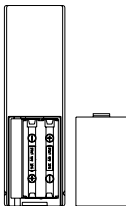
The Temperature Station uses 2 x AAA, Alkaline batteries. When batteries will need to be replaced, the low battery icon will appear on the LCD. To install and replace the batteries, please follow the steps below:

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 1 x IEC CR2032, 3.0V battery. When battery needs to be replaced, the low battery icon will appear on the LCD of the Temperature Station-or replace battery every 12 months. To install and replace the batteries, please follow the steps below:

1. Remove the battery compartment cover at the back of the transmitter.



2. Insert the battery, observing the correct polarity (see marking).
3. Replace the battery cover on 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.

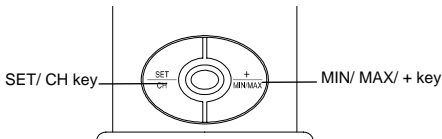


Please participate in the preservation of the environment. Return used batteries to an authorized depot.

FUNCTION KEYS

Temperature Station:

The Temperature Station has two easy to use function keys.



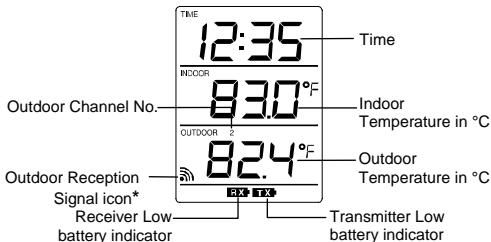
SET/CH key (Setting/Channel)

- Press and hold for about 3 seconds to enter the Manual setting mode.
- Press shortly to toggle between different channel readings.

MIN/MAX/+ key (Min/ Max temperature)

- Use 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).

LCD SCREEN AND SETTINGS:



* When the signal from the transmitter is successfully received by the Temperature Station, this icon will be switched on. (If not successful, the icon will not be shown on the LCD). User can therefore easily see whether the last reception was successful ("ON" icon) or not ("OFF" icon). On the other hand, the short blinking of the icon shows that a reception is being done at that time.

For a better display clarity, the LCD screen is split into 3 sections, showing the information of time, indoor temperature and outdoor data.

Section 1 - TIME

- Display of time (manually set).

Section 2 - INDOOR TEMPERATURE

- Display of indoor temperature.

Section 3 - OUTDOOR TEMPERATURE

- Display of 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 set to °F; when the time mode is in 24-hour format, the temperature unit will be set to °C.

1. In normal display mode, press and hold the "SET/ CH" key for about 3 seconds. 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/ CH" key to advance to the **MANUAL TIME SETTING**.

MANUAL TIME SETTING

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

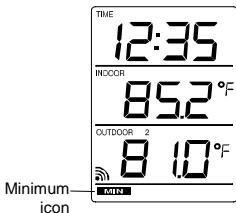
1. The hour digit of the time display will be flashing.

2. Press the "MIN/MAX/+" key to adjust the hour (press and hold to allow fast advance). Press "SET/ CH" 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 and hold to allow fast advance). Press "SET/ CH" key once more to return to normal display.

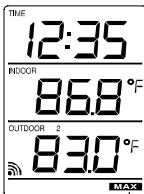
VIEWING THE MINIMUM AND MAXIMUM READINGS:

User may consult the minimum and maximum recordings for indoor temperature, and outdoor temperature by following these steps:

1. Press the "MIN/MAX/+" key once to view the minimum indoor temperature and minimum outdoor temperature.



2. Press the “MIN/MAX/+” key once more to view the maximum indoor temperature and maximum outdoor temperature.



Maximum icon_____

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 minimum data.
2. Press and hold the “MIN/MAX/+” key for about 3 seconds to reset all the minimum / maximum data to the current values in a single action.
3. Data of all outdoor and indoor sensor will be reset at the same time.

TEMPERATURE TRANSMITTER:

The outdoor temperature is measured and transmitted to the Temperature Station every 16 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.

915 MHz RECEPTION CHECK

The Temperature Station should receive the outdoor temperature data within a few minutes after setup. If the temperature data are not received about 2 minutes after setup (the signal reception icon does not appear), please check the following points:

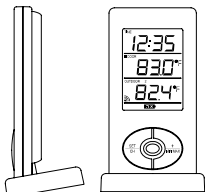
1. The distance of the Temperature Station or transmitter should be at least 1.5 to 2 meters away from any interfering sources such as computer monitors or TV sets.
2. Avoid positioning the Temperature Station onto or in the immediate proximity of metal window frames.
3. Using other electrical products such as headphones or speakers operating on the same signal frequency (915MHz) may prevent correct signal transmission and reception.
4. Neighbors 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 the Temperature Station, as the batteries may spring free from the contacts and force a false reset. If this happens accidentally, all units must be reset (see **Setting up** above) otherwise transmission problems may occur.

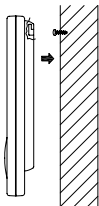
The transmission range is about 330 ft. (100 m) from the transmitter to the Temperature Station (in open space). However, this depends on the surrounding environment and interference levels. If no reception is possible despite the observation of these factors, all system units have to be reset (see **Setting up** above).

POSITIONING THE TEMPERATURE STATION:



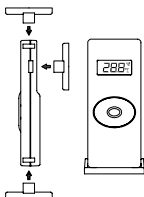
The Temperature Station comes attached with foldout table stand, which provides the option of table standing the unit in addition to wall mounting. Before wall mounting, please check that the outdoor temperature values can be received from the desired locations.

To wall mount:



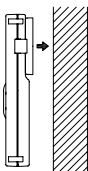
1. Fix a screw (not supplied) into the desired wall, leaving the head extended out by about 5mm.
2. Hang the Temperature Station onto the screw. Remember to ensure that it locks into place before releasing.

POSITIONING THE REMOTE TEMPERATURE SENSOR



The remote temperature sensor 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 sensor 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, vibrations and shocks 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 units in water. Furthermore, fix all parts in place where the units are adequately protected against moisture and rain.
- ✓ 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 : 14.1°F to +139.8°F with 0.2°F resolution
(-9.9 to +59.9°C with 0.1°C resolution)
("OF.L" displayed if outside this range)

Outdoor : -39.9°C to +59.9°C with 0.1°C resolution
(-9.9 to +59.9°C with 0.1°C resolution)
("OF.L" displayed if outside this range)

Indoor Temperature checking interval : every 15 seconds

Outdoor data checking interval : every 16 seconds

Power Supply	:	2 x AAA, IEC LR3, 1.5V
Temperature Station	:	1 x IEC CR2032, 3.0V
Outdoor Temperature Transmitter	:	1 x IEC CR2032, 3.0V
Battery life cycle	:	approximately 12 months (Alkaline batteries recommended)

Dimensions (L x W x H)	:	2.29" x .69" x 4.66"
Temperature Station	:	58.2 x 17.6 x 118.4 mm
Outdoor Temperature Transmitter	:	1.44" x .53" x 3.46"
	:	36.6 x 13.5 x 87.9 mm

WARRANTY INFORMATION

La Crosse Technology, Ltd provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

This limited warranty begins on the original date of purchase, is valid only on products purchased and used in North America and only to the original purchaser of this product. To receive warranty service, the purchaser must contact La Crosse Technology, Ltd for problem determination and service procedures. Warranty service can only be performed by a La Crosse Technology, Ltd authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to La Crosse Technology, Ltd or La Crosse Technology, Ltd's authorized service center.

La Crosse Technology, Ltd will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of La Crosse Technology, Ltd and must be returned to La Crosse Technology, Ltd. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer. La Crosse Technology, Ltd will pay all expenses for labor and materials for all repairs covered by this warranty. If necessary repairs are not

covered by this warranty, or if a product is examined which is not in need or repair, you will be charged for the repairs or examination. The owner must pay any shipping charges incurred in getting your La Crosse Technology, Ltd product to a La Crosse Technology, Ltd authorized service center. La Crosse Technology, Ltd will pay ground return shipping charges to the owner of the product to a USA address only.

Your La Crosse Technology, Ltd warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (including the lack of reasonable and necessary maintenance); (2) damage occurring during shipment (claims must be presented to the carrier); (3) damage to, or deterioration of, any accessory or decorative surface; (4) damage resulting from failure to follow instructions contained in your owner's manual; (5) damage resulting from the performance of repairs or alterations by someone other than an authorized La Crosse Technology, Ltd authorized service center; (6) units used for other than home use (7) applications and uses that this product was not intended or (8) the products inability to receive a signal due to any source of interference.. This warranty covers only actual defects within the product itself, and does not cover the cost of installation or removal from a fixed installation, normal set-up or adjustments, claims based on misrepresentation by the seller or performance variations resulting from installation-related circumstances.

LA CROSSE TECHNOLOGY, LTD WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT. THIS PRODUCT IS NOT TO BE USED FOR MEDICAL PURPOSES OR FOR PUBLIC INFORMATION. THIS PRODUCT IS NOT A TOY. KEEP OUT OF CHILDREN'S REACH.

This warranty gives you specific legal rights. You may also have other rights specific to your State. Some States do not allow the exclusion of consequential

or incidental damages therefore the above exclusion of limitation may not apply to you.

For warranty work, technical support, or information contact:

La Crosse Technology, Ltd
2809 S. Losey Blvd.
La Crosse, WI 54601
Phone: 608.782.1610
Fax: 608.796.1020

e-mail:
support@lacrossetechnology.com
(warranty work)

sales@lacrossetechnology.com
(information on other products)

web:
www.lacrossetechnology.com

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