Quick Start for your WS-7013U

Hint: Use good quality Alkaline Batteries and avoid rechargeable batteries.

1. Have the indoor station and outdoor remote 3 to 5 apart.
2. Batteries should be out of both units for 10 minutes.
3. Place the batteries into the **outdoor remote** first then into the indoor station.
   (All outdoor remotes must be started before the indoor station)
4. DO NOT PRESS ANY BUTTONS FOR 10 MINUTES.

In this time the display and sensor will start to talk to each other and the display will show both the indoor temperature and an outdoor temperature. If the station does not display both temperatures after the 10 minutes please retry the set up as stated above. After both indoor and outdoor temperatures are displayed for 10 minutes you can place your sensor outdoors and set your time.

The remote sensor should be placed in a dry, shaded area. The remote sensor has a range of 80 feet. Any walls that the signal will have to pass through will reduce distance. An outdoor wall or window will have 20 to 30 feet of resistance and an interior wall will have 10 to 20 feet of resistance. Your distance plus resistance should not exceed 80 ft. in a straight line.

NOTE: Fog and mist will not harm your remote sensor but direct rain must be avoided.

To complete the set up of your temperature station after the 10 minutes have passed please follow the steps below.

1. Press and hold the SET button for 5 seconds.
   A 12h or 24h will appear on the top line. (12h for AM/PM, 24h for military time)
   a. To change between 12h and 24h press and release the MIN/MAX button.
      When you have your choice shown on the display press and release the SET button once.
2. Degree Fahrenheit will now show.
   a. To change between Fahrenheit and Celsius, press and release the MIN/MAX button.
      When you have your choice shown on the display press and release the SET button once.
3. An hour will now be flashing.
   a. Press and release the MIN/MAX button until the correct hour is shown.
   NOTE: When in the 12h mode there is "PM" displayed under the word TIME when in the PM hours. During the AM hours this area will be blank.
      When the correct hour is shown press and release the SET button once.
4. A minute will now be flashing.
   a. Press and release the MIN/MAX button until the correct minutes are displayed.
   Press and release the SET button once more and you are done.

WS-7013U
Wireless 433 MHz
# Temperature Station

Instruction Manual
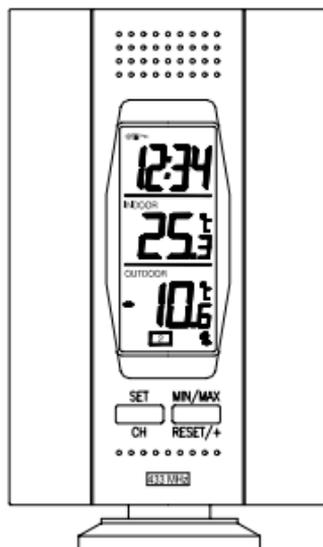
LA CROSSE TECHNOLOGY

TABLE OF CONTENTS

INVENTORY OF CONTENTS

1. The Indoor Temperature Station (Figure 1)
2. The Remote Control Sensor (TX2U) and mounting bracket. (Figure 2)
3. 3 each, 1/2" Philips screws.
4. One strip of double sided adhesive tape.
5. Instruction Manual and Warranty Card.
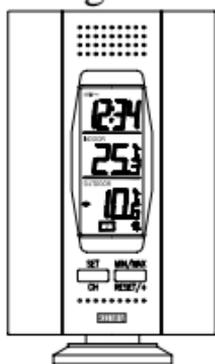
Figure 1   Figure 2
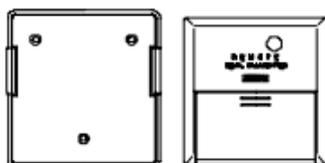
ADDITIONAL EQUIPMENT
(not included)

1. 1 Philips screwdriver.
2. 2 Fresh AAA 1.5V batteries.
3. 2 Fresh AAA 1.5V batteries.

QUICK SETUP

1. Insert two AAA batteries into the Remote Control Sender.
2. Insert two AAA batteries into the Indoor Temperature Station.
3. Wait 5-6 minutes, or until the outdoor temperature is displayed in the OUTDOOR LCD of the Temperature Station.
4. Set the Time
5. Mount units.

(See complete instructions for details).

Note: The Remote Control Sender transmits a signal every 3 minutes. After the batteries have been installed, the Indoor Temperature Station searches for these signals for a duration of 6 minutes. If there is no temperature reading in the OUTDOOR LCD after 6 minutes, make sure the units are within range of each other, or repeat battery installation process.

DETAILED SETUP GUIDE

I. BATTERY INSTALLATION

A. REMOTE CONTROL SENDER
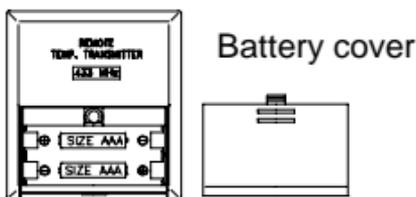
Battery cover

Battery compartment

1. Remove the mounting bracket.
2. Remove battery cover
3. Observing the correct polarity, install 2 AAA batteries—make sure they do not spring free, or start-up problems may occur. Replace cover.

B. TEMPERATURE STATION

Note: After the batteries are installed, **DO NOT** press any buttons. This may interfere with the signals, causing temperatures to register incorrectly.

1. Remove the battery cover on the backside. To do this, push up and pull out.
2. Observing the correct polarity, install 2 AA batteries.

Battery Cover

3. Replace battery cover.
4. Wait 5-6 minutes or until both indoor and outdoor temperatures are shown on the Indoor Temperature Station.
5. The Temperature Station should now show: "-:- -" in the TIME LCD, and temperatures in the INDOOR and OUTDOOR LCD's.
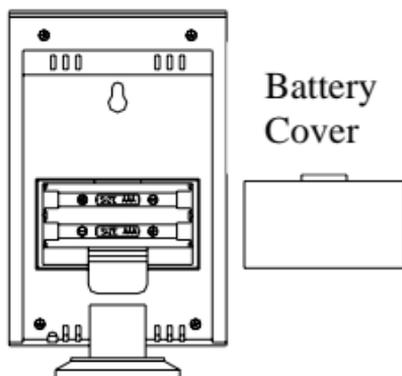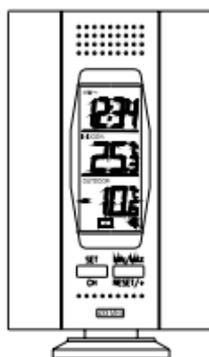
II. TIME
A. SETTING THE TIME

1. Press and hold the *SET* button for 1 second. "12h" will appear in the TIME LCD.

SET	MIN/MAX
CH	RESET/+
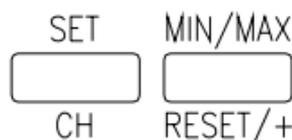
2. Use the *MIN/MAX* button to select either 12h time (am/pm) or 24h time
3. Press the *SET* button 2 times, the hour will flash in the upper left corner.
4. Press the *MIN/MAX* button to set the hours, press the SET button, and press the *MIN/MAX* button to set the minutes.
5. Press the *SET* button to activate the clock.

Note: When in 12h mode, there is only a "PM" display, which appears under "TIME." If there is no display here it is AM. Make sure you set the time accordingly.

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III. UNITS OF TEMPERATURE MEASURE

A. SELECTING UNITS OF MEASUREMENT
1. Press and hold the *SET* button for 1 second.
2. Press the *SET* button again. "°F" will appear in the TIME LCD.
3. Press the *MIN/MAX* button to shift between °F and °C.
4. Press the *SET* button twice to activate settings.

IV. FEATURES

A. MINIMUM AND MAXIMUM TEMPERATURES
1. Press the *MIN/MAX* button. "MIN" appears in the temperature LCD's and the recorded minimum temperatures are displayed.
2. Press the *MIN/MAX* button to toggle to the maximum temperatures. The

time of occurrence of the value for outdoor temperature will also flash.

B. RESETTING THE MINIMUM AND MAXIMUM TEMPERATURES

1. To reset both the minimum and maximum temperatures—press and hold the *RESET/+* button for 4 seconds.

C. ADDING ADDITIONAL REMOTE CONTROL SENDERS (OPTIONAL)

1. The WS-7013U is able to receive signals from 3 different Remote Control Senders. Following are some brief instructions for the basic set-up of Remote Control Sender units with the WS-7013U. These extra sensors can be purchased through the same dealer as this unit, or by contacting La Crosse Technology directly. A TX2U will monitor temperature only, a TX3U will monitor temperature and

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display the temperature on its LCD, and the TX3UP will monitor the temperature via a probe for use in pools, spas, etc.

2. *Note: When setting up multiple units it is important to remove the batteries from all existing units in operation, then to insert batteries first into all the Remote Control Sender units, and in numeric sequence. Second, install batteries into the Indoor Temperature Station. Transmission problems will arise if this is not done correctly and if the total time for set-up exceeds 6 minutes.*

3. It is necessary to remove the batteries from all units currently in operation.

4. Remove the battery covers to all Remote Control Sender units.

5. Place all Remote Control Sender units in a numeric sequential order.

6. In sequential order, install batteries (follow the same battery installation

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procedures seen in section I. A) of the Detailed Set-Up Guide).

7. Install batteries into the Indoor Temperature Station.
8. Follow the Detailed Set-Up Guide for programming and operating instructions.

D. VIEWING AND OPERATING WITH MULTIPLE REMOTE CONTROL SENDER UNITS

1. To view the temperature of a different Remote Control Sender unit, press the *CH* button. A shift from one "boxed" number to the next should be observed in the OUTDOOR LCD.
2. To view the Minimum/Maximum temperature: first select from which Remote Control Sender to read data (indicated by the "boxed" number). Pressing the *MIN/MAX* button will toggle through the minimum and maximum indoor temperature, and the

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minimum and maximum outdoor temperature.
3. To reset the Minimum/Maximum readings press and the *MIN/MAX* button for four seconds.

V. MOUNTING

A. <u>Note:</u> To achieve a true temperature reading, avoid mounting in direct sunlight. We recommend that you mount the Sender on an outside North-facing wall. The sending range is 80ft; obstacles such as walls, concrete, and large metal objects will reduce the range. Place both units in their desired location before permanently mounting.

B. REMOTE CONTROL SENDER
1. Remove the mounting bracket from the Remote Control Sender and mount with either screws or adhesive tape.

C. THE TEMPERATURE STATION

1. The Indoor Temperature Station comes with the table stand already mounted. If you wish to use the table-stand, all that is required is to place the Indoor Temperature Station in an appropriate location.
2. To wall mount, remove the table stand. To do this, pull down on the stand from the rear and rotate forward.
   a) Fix a screw (not included) into the desired wall, and place the Temperature Station onto the screw using the hanging hole on the backside. Gently pull the Station down to lock the screw into place.

TROUBLESHOOTING

NOTE: For problems not solved, please contact La Crosse Technology via e-mail or phone, or visit our website, www.lacrossetechnology.com

Problem: The LCD is faint
Solution:
1) Replace batteries

Problem: No outdoor temperature is displayed.
Solution:
1) Remove all batteries, reinsert into sender first, and then display.
2) Place remote sender closer to display.
3) Be sure all batteries are fresh.
4) Place Remote Control Sender and Weather Station in position so the straight-line signal is not passing through more than two or three walls.

Problem: Temperatures do not match if units are placed next to each other.

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Solution: Each temperature sensor is manufactured to be accurate to within 1 degree plus or minus and under normal conditions; so two sensors could be as much as 2 degrees different. However, the difference can be exaggerated further because the sensors are designed for different working environments. The indoor sensor is less responsive to ambient air currents because of the shielding effect of the display's case. In addition, the case can act as a heat sink to absorb and store heat from external sources (i.e. handling of the case or radiant heat). In addition, the much greater range of the outdoor temperature sensor requires a different calibration curve than the indoor range. Error is usually greater at the extreme ends of a range, making it harder to compare different ranges with different curves. Under non-laboratory conditions, it is difficult to compensate for the above factors and obtain an accurate comparison.

MAINTENANCE AND CARE INSTRUCTIONS

- Extreme temperatures, vibration, and shock should be avoided to prevent damage to the units.
- Clean displays and units with a soft, damp cloth. Do not use solvents or scouring agents; they may mark the displays and casings.
- Do not submerge in water.
- Do not subject the units to unnecessary heat or cold by placing them in the oven or freezer.
- Opening the casings invalidates the warranty. Do not try to repair the unit. Contact La Crosse Technology repairs.

SPECIFICATIONS

Transmitting Frequency	433MHz
Measuring Temperatures	
Temperature Station: Indoor	32°F to 156.2°F with 0.2°F resolution. (0°C to 69.0°C with 0.1°C resolution).
Temperature Station: Outdoor	-21.8 °F to 156.2°F with 0.2°F resolution. (-29.9°C to 69.0°C with 0.1°C resolution).
Temp accuracy	+/- 1°F (+/- .5°C).
Transmitting range	Maximum 80 feet (25m) open space.
Temperature check	
Indoor	Every 10 seconds.
Outdoor	Three times in 10 minutes.
Batteries—(Alkaline recommended)	
Remote Sender	2 x AAA, 1.5V
Temperature	2 x AA, 1.5V

Dimensions: (L x W x H)	
Temperature Station	2.75 x .92 x 4.3 in. (excluding table stand) (90 x 23.6 x 110 mm).
Remote Control Sender	2.32 x 0.86 x 2.55 in. (59 x 22 x 65 mm).
Battery life	Approximately 1 year.

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

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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 of 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 no 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
2809 Losey Blvd. S.
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

FCC DISCLAIMER

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.

Freq. 433.92 MHz
La Crosse Technology
Made in China
WS-7013U

FCC ID: OMO-01RX (Receiver)
OMO-01TX (sensor)