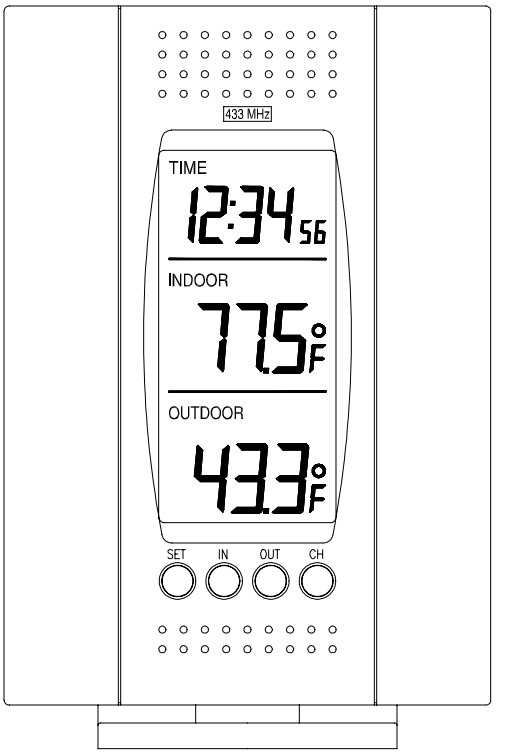
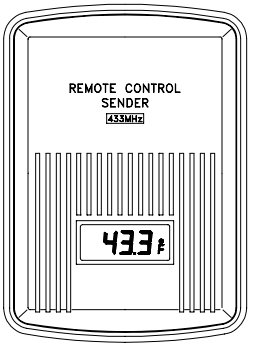
WS-7016U
Wireless 433 MHz
Temperature Station

Instruction Manual





LA CROSSE TECHNOLOGY

TABLE OF CONTENTS

Topic	Page
Inventory of Contents	1
Additional Equipment	1
Quick Setup	2
Detailed Setup Guide	
Battery Installation	3-6
Remote Control Sender	3-4
Indoor Temperature Station	5-6
Setting the Time	7-8
Selecting Units of Measurement	8
Features	
Indoor Minimum and Maximum Temperatures	9
Outdoor Minimum and Maximum Temperatures	10-11
Resetting the Indoor Minimum and Maximum Temperatures	11-12
Resetting the Outdoor Minimum and Maximum Temperatures	12
Reading the Temperature Trend	13
Mounting	

Remote Control Sender	13-16
Indoor Temperature Station	16-18
Using Multiple Remote Control Senders	
Setup of Multiple Units	18-21
Viewing Remote Control Senders	21-22
Features of the Multiple Remote Control Senders	22-23
Troubleshooting	24-28
Maintenance and Care Instructions	28-29
Specifications	29-31
Warranty Information	31-33
FCC DISCLAIMER	34

INVENTORY OF CONTENTS

1. The Indoor Temperature Station (Figure 1)
2. The Outdoor Remote Control Sensor (TX3U) 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

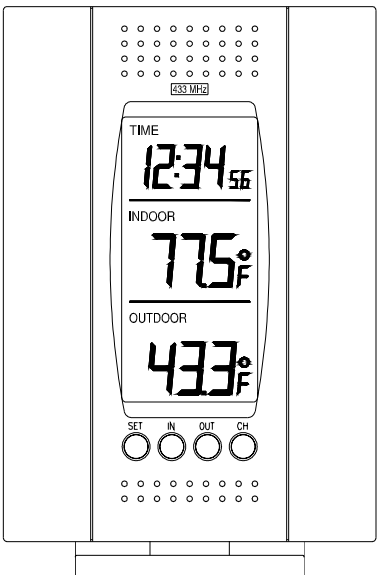
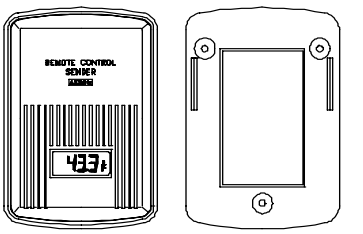


Figure 2



ADDITIONAL EQUIPMENT (not included)

1. 1 Philips screwdriver.
2. 1 Flat screwdriver.
3. 2 Fresh AA 1.5V batteries.
4. 2 Fresh AAA 1.5V batteries.

QUICK SETUP

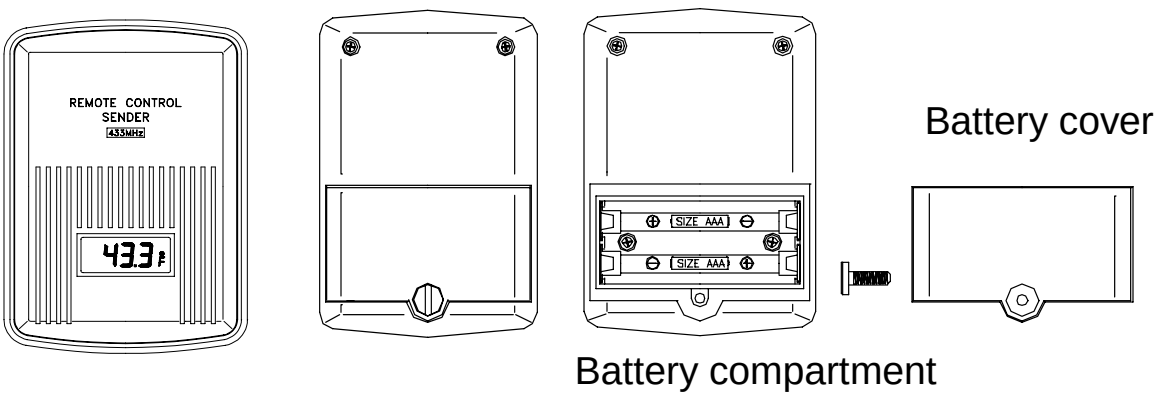
1. Insert two AAA batteries into the Remote Control Sender.
2. Insert two AA batteries into the Indoor Temperature Station.
3. Wait 5-6 minutes, or until the outdoor temperature is displayed in the OUTDOOR LCD (Liquid Crystal Display) of the Indoor Temperature Station.
4. Set the Time (See complete instructions for details).
5. Mount units.

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



1. Remove the mounting bracket. The bracket snaps on and off with minimal effort.
2. Remove battery cover. To do this, remove the flathead screw located in the lower-central position of the unit. The rubber weather-seal creates a tight seal for the battery cover, and does not allow the

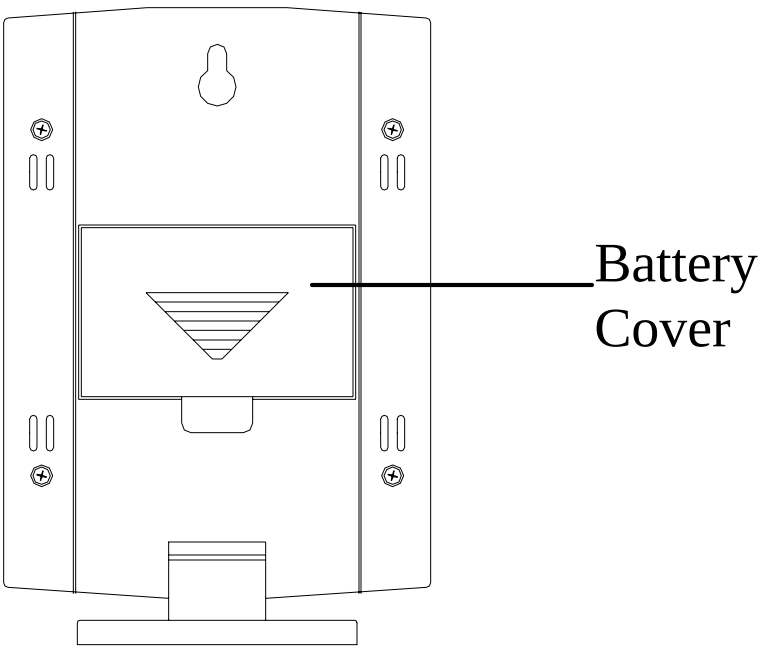
battery cover to fall away from the unit. Place the screw partially back into the hole and angle it slightly, so the threads grab the battery cover. With the screw, pull the battery cover off.

3. Observing the correct polarity, install 2 AAA batteries. The batteries will fit tightly—make sure they do not spring free, or start-up problems may occur.
4. Check the LCD screen of the Remote Control Sender to see if there is a temperature reading. If there is no reading check the polarity of the batteries or replace with new batteries.
5. Observing that the rubber weather-seal is in place; replace battery cover, screw, and mounting bracket.

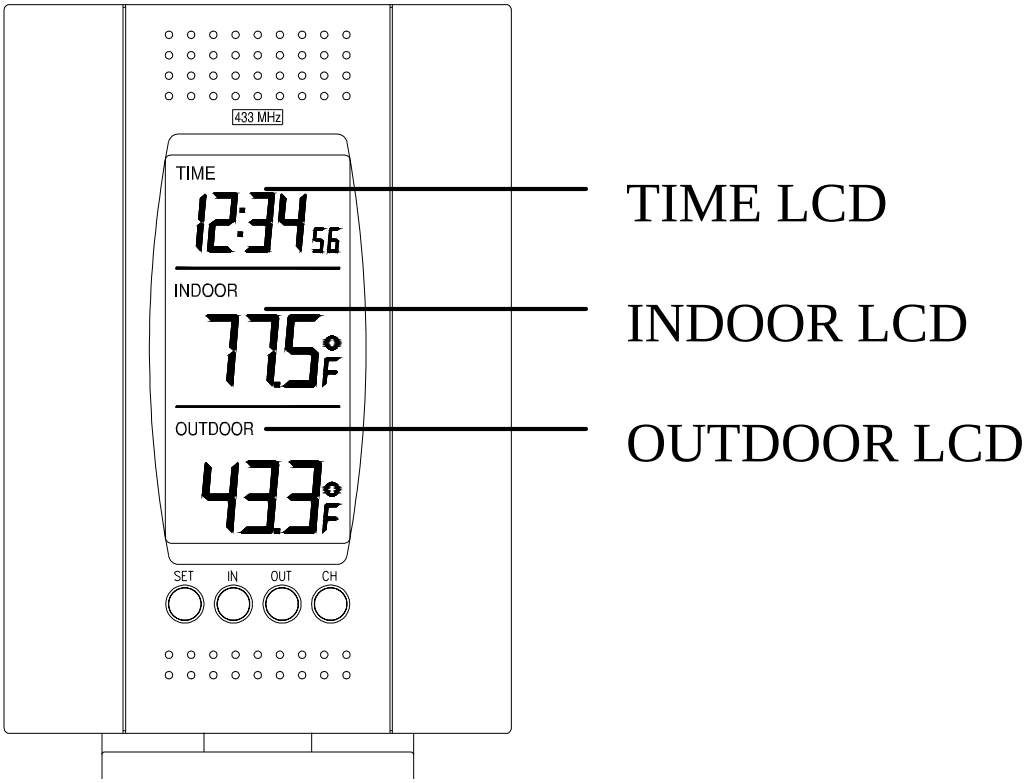
B. INDOOR TEMPERATURE STATION

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.

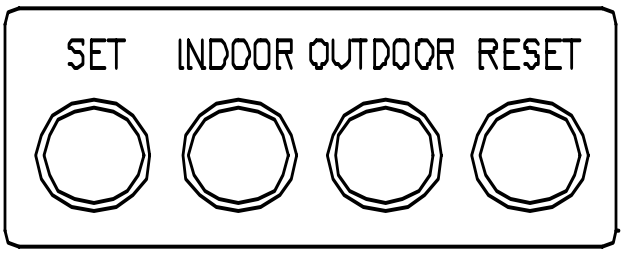


2. Observing the correct polarity, install 2 AA batteries.
3. Replace battery cover.
4. Wait 5-6 minutes or until both indoor and outdoor temperatures are shown on the Indoor Temperature Station.
5. The Indoor Temperature Station should now show: “-:- -” in the TIME LCD, and temperatures in the INDOOR and OUTDOOR LCD’s.



II. **TIME**

Control Buttons



A. **SETTING THE TIME**

1. Press and hold the *SET* button for 1 second. “12h” will appear in the TIME LCD.
2. Use the *INDOOR* button to select either 12h time or 24h time (12h is an AM—PM mode, and 24h is military time).
3. Press the *SET* button 2 times, “TIME” will flash in the upper left corner.
4. Press the *INDOOR* button to set the hours, and press the *OUTDOOR* button to set the minutes.

5. Press the *SET* button to activate the clock.

Note: 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.

III. UNITS OF TEMERATURE 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 *INDOOR* button to shift between °F and °C.
4. Press the *SET* button twice to activate settings.

IV. FEATURES

A. INDOOR MINIMUM AND MAXIMUM TEMPERATURES

1. Press and hold the *INDOOR* button for 1 second. “MIN” appears in the INDOOR LCD and the recorded minimum temperature is displayed.
2. Press and hold the *INDOOR* button for 1 second. “MAX” appears in the INDOOR LCD and the recorded maximum temperature is displayed.

Note: When first setting-up the minimum and maximum temperatures may be the same as the current temperatures.

3. To return to the current temperature, press and hold the *INDOOR* button for 1 second.

B. OUTDOOR MINIMUM AND MAXIMUM TEMPERATURES

1. Press and hold the *OUTDOOR* button for 1 second. “MIN” appears in the OUTDOOR LCD. The “OUTDOOR MIN,” and “TIME” displays will flash. The recorded minimum temperature is displayed in the OUTDOOR LCD, and the time it was recorded is displayed in the TIME LCD. After 15 seconds the “OUTDOOR MIN,” and “TIME” will stop flashing. However, the minimum outdoor temperature will continue to be displayed.
2. Press and hold the *OUTDOOR* button for 1 second. “MAX” appears in the OUTDOOR LCD. The “OUTDOOR MAX,” and “TIME” displays will flash. The recorded maximum temperature is

displayed in the OUTDOOR LCD, and the time it was recorded is displayed in the TIME LCD. After 15 seconds the “OUTDOOR MAX,” and “TIME” will stop flashing, and the maximum outdoor temperature will continue to be displayed.

3. To return to current temperature, press and hold the *OUTDOOR* button for 1 second.

V. RESETTING THE MINIMUM AND MAXIMUM TEMPERATURES

A. INDOOR

1. To reset both the minimum and maximum temperatures—press and continue to hold the *INDOOR* button, while you press and hold the RESET button. When the

temperatures are reset release the buttons.

2. To return to the current indoor temperature, press and hold the *INDOOR* button two times, holding for 1 second each.

B. **OUTDOOR**

1. To reset both the minimum and maximum temperatures—press and continue to hold the *OUTDOOR* button, while you press and hold the *RESET* button. When the temperatures are reset release the buttons.
2. To return to the current outdoor temperature, press and hold the *OUTDOOR* button two times, holding for 1 second each.

VI. READING THE TEMPERATURE TREND

A. The temperature trend indicator is displayed in the OUTDOOR LCD.
   1. ↑ Indicates that the temperature is rising.
   2. ↓ Indicates that the temperature is dropping.
   3. The absence of an arrow indicates that the temperature is stable.

VII. MOUNTING

A. THE REMOTE CONTROL SENDER

Note: To achieve a true temperature reading, avoid mounting where direct sunlight can reach the Remote Control Sender. We recommend that you mount the Sender on a North-facing wall. The sending range is 80ft; obstacles such as

walls, concrete, and large metal objects can reduce the range. Place both units in their desired location before permanently mounting the Remote Control Sender. There should be a change of temperature in the OUTDOOR LCD within 6 minutes.

The Remote Control Sender can be mounted in two ways:

- with the use of screws or,
- using the adhesive tape.

1. **MOUNTING WITH THE SCREWS**

   a) Remove the mounting bracket from the Remote Control Sender (figure 2).
   b) Place mounting bracket over desired location. Through the three screw holes of the bracket, mark the mounting surface with a pencil.

c) Where marked, drill holes into mounting surface using an appropriate size drill bit.
d) Screw mounting bracket onto the mounting surface. Ensure that the screws are flush with the bracket.

2. MOUNTING WITH ADHESIVE TAPE

a) With a nonabrasive solution, clean and dry the back of the mounting bracket and the mounting surface to ensure a secure hold. The mounting surface should be smooth and flat.
b) Remove the protective strip from one side of the tape. Adhere the tape to the designated area on the back of the mounting bracket.

c) Remove the protective strip from the other side of the tape. Position the Remote Control Sender in the desired location, ensuring that the Indoor Temperature Station can receive the signal.

B. THE INDOOR TEMPERATURE STATION

Note: Before mounting the Indoor Temperature Station make sure that it is able to receive signals from the Remote Control Sender.

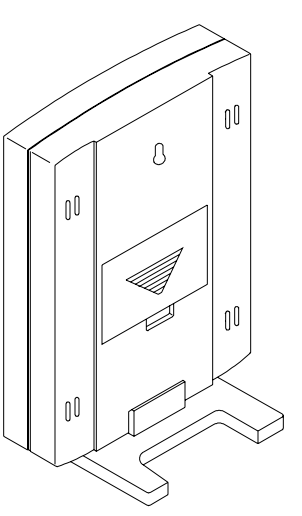
The Indoor Temperature Station can also be mounted in two ways:

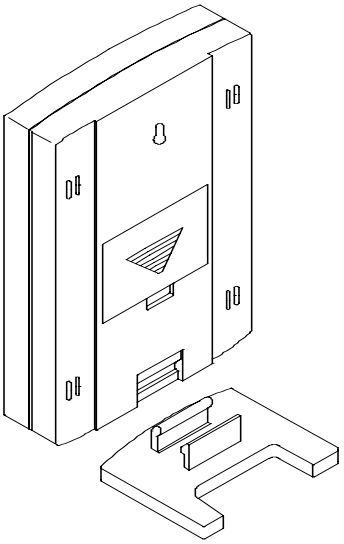
- with the table stand or,
- on the wall with the use of a wall hanging screw (not included).

1. USING THE TABLE-STAND

a) 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. WALL MOUNTING





a) Remove the table stand. To do this, pull down on the stand from the rear and rotate forward.
b) Fix a screw (not included) into the desired wall, leaving approximately 3/16 of an inch (5mm) extended from the wall.
c) Place the Indoor Temperature Station onto the screw using the hanging hole on the backside. Gently pull the Station down to lock the screw into place.

VIII. USING MULTIPLE REMOTE CONTROL SENDERS

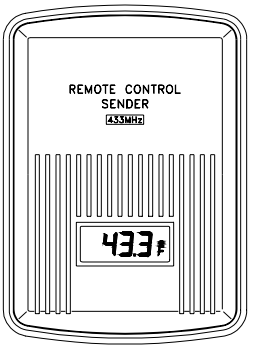
Your WS-7016U Indoor Temperature Station can receive signals from five different Remote Control Senders (The TX3U features temperature data transmission and the TX3UP

offers the same plus a 10’ probe to insert in a pool, spa, soil, etc.). Assign a number to each Remote Control Sender (i.e. #1 will be for outdoors, #2 will be for the basement, etc.). This will help you determine which temperature, from which Sender, you are reading on the Indoor Temperature Station.

Note: When setting up multiple units it is important to insert batteries **first** into all the Remote Control Senders, 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.

A. SETUP OF MULTIPLE UNITS

1. It is necessary to remove the batteries from all existing units in operation.
2. Remove the battery covers to all Remote Control Senders. See section **I.A.2.**
3. Place all Remote Control Senders in sequential order.



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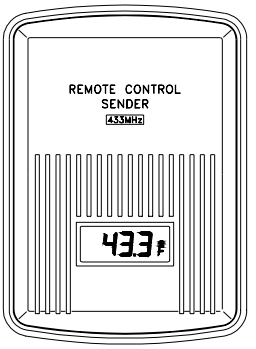

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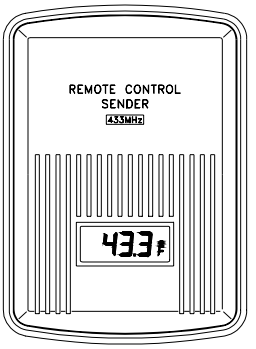

#3

4. In sequential order, install batteries. (Refer to instructions in **I.A.3** through **I.A.5**).

5. Install batteries into the Indoor Temperature Station. (Refer to instructions in **I.B.**).
6. Follow directions in section **II.A** to set the time, section **III.A** to select Fahrenheit or Celsius, and section **VII. A** to mount.

B. VIEWING MULTIPLE REMOTE CONTROL SENDERS ON THE INDOOR TEMPERATURE STATION

1. To view the temperature of a different Remote Control Sender, press the *RESET* button.
2. In the OUTDOOR LCD a 

should shift and become a 

This indicates that you are now reading the temperature of the Remote Control Sender you designated as #2.

3. Repeat step 1 to view the 3rd, 4th, and 5th (depending on how many are set up) temperatures sent by the Remote Control Senders. Continue to press *RESET* until you return to the first Remote Control Sender.

C. VIEWING THE FEATURES OF MULTIPLE REMOTE CONTROL SENDERS

1. Press the *RESET* button to select the Remote Control Sender you wish to view.
2. To view the OUTDOOR MINIMUM AND MAXIMUM TEMPERATURES, follow directions in section **IV.B.** While, in this mode press the *RESET* button to toggle through different Remote Control Senders and view

their minimum and maximum temperatures.

3. To reset the OUTDOOR MINIMUM AND MAXIMUM TEMPERATURES, follow step 1 above and the directions in sections **V.A.** through **V.B.** This will reset the minimum and maximum for only the selected Remote Control Sender.

TROUBLESHOOTING

Problem	**Solution**
“--. -” appears in the OUTDOOR LCD of the Indoor Temperature Station.	Batteries may be inserted wrong in Remote Control Sender—correct the polarity
	The batteries may be weak—replace with new batteries.
	The Remote Control Sender may be out of its 80 foot (25m) range—bring the units closer together.

“--.-” appears in the OUTDOOR LCD of the Indoor Temperature Station. (continued)	Obstacles such as walls, concrete, metal window frames, or large metal objects, may be obstructing signal transmission from the Remote Control Sender—Relocate the Remote Control Sender, within range, where there are no obstructions.
	Other equipment in vicinity operating on 433MHz may interfere with signal—turn off other equipment or relocate Indoor Temperature Station, wait a few minutes for signal to be found.
	Temperature exceeds range of the Remote Control Sender—see specifications for range.

No temperature in the LCD of the Remote Control Sender.	The batteries may be inserted wrong or weak—check the polarity of batteries or replace with new batteries.
	Remote Control Sender out of its 80 foot (25m) range—bring the units closer together.
	If problem persists contact La Crosse Technology for replacement.
The LCD of the Indoor Temperature Station is blank.	Check for proper battery installation.
	The batteries may be weak—replace with new batteries.

The LCD of the Indoor Temperature Station is blank. (continued)	Contact La Crosse Technology for replacement.
Temperature is “incorrect”	Temperatures can vary depending on the location of the Remote Control Sender. The thermometers are not 100% accurate (the WS-7016U is accurate to +/- 2 °F). If you are sure the temperature is wrong (the unit reads 110 °F, when it is actually 70 °F) reset entire system by removing all batteries and following set-up instructions. If this does not solve the problem, contact La Crosse Technology for replacement.

Problem not covered under the warranty (ie. Dropped unit into water).	Call La Crosse Technology to order replacement part. We will accept Visa, MasterCard, Discover, or prepayments by check.

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
Recommended Operating Temperature	
Indoor Temperature Station	32 °F to 122 °F (0 °C to 50 °C)
Remote Control Sender	14 °F to 140 °F (-10 °C to 60 °C)
Measuring Temperatures	
Temperature Station: Indoor	-20.2 °F to 156.2 °F with 0.2 °F resolution. (-29.0 °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).

Remote Control Sender	-21.8 °F to 156.2 °F with 0.2 °F resolution. (-29.9 °C to 69.0 °C with 0.1 °C resolution).
Accuracy	
Indoor	+/- 2 °F (+/- 1 °C).
Outdoor	+/- 2 °F (+/- 1 °C).
Transmitting range of the Remote Control Sender	Maximum 80 feet (25m).
Temperature check	
Indoor Temperature Station: Indoor	Every 10 seconds.
Indoor Temperature Station: Outdoor	Three times in 10 minutes.
Remote Control Sender (LCD)	Once every minute.
Batteries—(Alkaline recommended)	
Remote Control Sender	2 x AAA, 1.5V
Indoor Temperature Station	2 x AA, 1.5V

Battery life expectancy for both units	Approximately 1 year.
Dimensions: (L x W x H)	
Indoor Temperature Station	3.51 x 1.19 x 4.88 in. (excluding table stand) (90 x 30.5 x 125 mm).
Remote Control Sender	2.18 x 0.94 x 3.12 in. (56 x 24 x 80 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 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

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(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
WS7016U