

WS-7047U
Wireless 433 MHz
Weather Station
With Rainfall and Temperature
Instruction Manual

LA CROSSE
TECHNOLOGY *tools and technology*
for home and office

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INVENTORY OF CONTENTS

1. The digital indoor weather station.
2. The remote temperature sensor and mounting bracket.
3. The remote rain sensor.
4. Instruction manual and warranty card.

ADDITIONAL EQUIPMENT (not included)

1. 1 Philips screwdriver
2. 2 Fresh AA Alkaline batteries (for indoor weather station)
3. 2 Fresh AA Alkaline batteries (for remote temperature sensor)
4. 2 Fresh AA Alkaline batteries (for remote rain sensor)

QUICK SETUP OF THE WIRELESS WEATHER STATION

Hint: Use good quality Alkaline Batteries and avoid rechargeable batteries. For best performance and longest life we recommend using RadioShack alkaline batteries.

1. Have the indoor weather station, remote temperature sensor and remote rain sensor 3 to 5 feet apart.
2. Batteries should be out of all units for 10 minutes.
3. Place the batteries into the **remote rain sensor** first then into the **remote temperature sensor** and finally into the **indoor weather station**.
4. DO NOT PRESS ANY BUTTONS FOR 10 MINUTES.

In this time the indoor weather station and remote sensors will start to talk to each other and the display will show the indoor temperature, the outdoor temperature and the rainfall. If the indoor weather 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 remote temperature sensor and remote rain sensor outdoors and set your time.

The remote temperature sensor should be placed in a dry, shaded area. The remote rain sensor should be placed in an area where it will receive direct rainfall from all directions. The remote sensors have 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 temperature sensor but direct rain must be avoided.

To complete the set up of your indoor weather station after the 10 minutes have passed please follow the steps on pages 4 to 6.

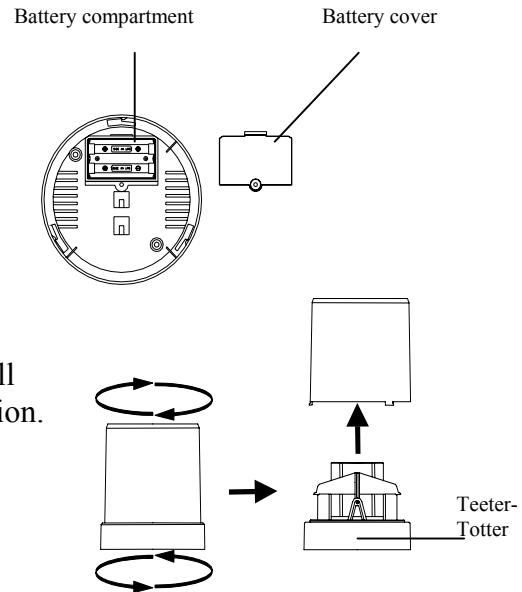
DETAILED SET-UP GUIDE FOR THE WIRELESS WEATHER STATION

I) Battery Installation

Note: Batteries will fit tightly. To avoid start-up problems make sure that the batteries do not spring free.

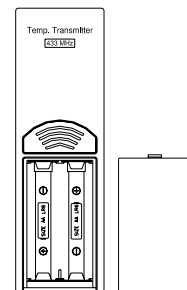
A) Remote Rainfall Sensor

1. Remove the flat-head screw and battery cover located on the underside of the base.
2. Observing the correct polarity install two AA batteries.
3. Make sure the rubber weather seal is in place and replace the battery cover and screw.
4. Separate the base by turning the rainfall collector in a counter-clockwise direction.
5. Remove the tape from the teeter-totter.
6. Replace the cover.



B) Remote Temperature Sensor

1. Remove the mounting bracket. The bracket snaps on and off easily.
2. Remove the battery cover by sliding the cover down.
3. Observing the correct polarity install 2 AA batteries.
4. Replace the battery cover by sliding upwards making sure that the battery cover is on securely.



C) Indoor Weather Display

1. Remove the battery cover. To do this, insert a solid object in the space provided at the lower-central position of the battery cover, then push up and pull out on the battery cover.
2. Observing the correct polarity install 2 AA batteries.
3. Replace the battery cover.

MOUNTING THE WIRELESS WEATHER STATION

Note: To achieve a true temperature reading, avoid mounting in direct sunlight. We recommend that you mount the remote temperature sensor on a 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.

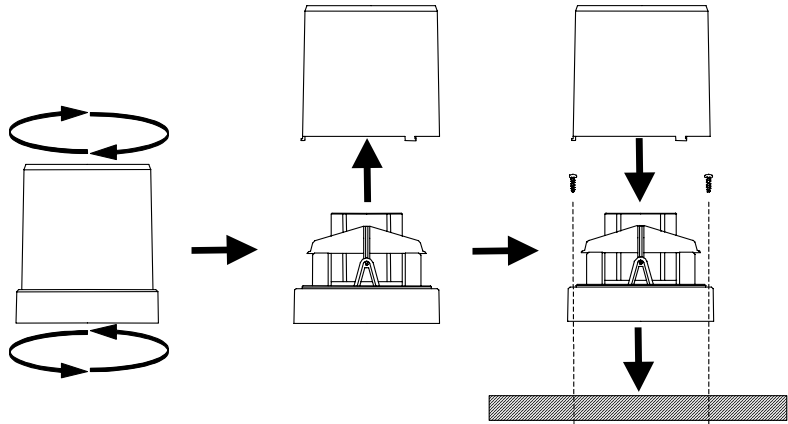
I) The Rainfall Sensor

The rainfall sensor can be mounted in two ways:

- simply placing it in a desired location
- mounting it to a surface with screws

Ensure that the rainfall sensor is completely horizontal and stable.

1. Rotate the rainfall collector separating it from the base.
2. There are two cylindrical holes in the base to guide the mounting screws.
3. Place the base over a desired mounting surface.
4. With a pencil mark the mounting surface through the cylindrical holes.
5. Where marked start the screws.
6. Place the base over mounting surface.
7. Install screws through the cylindrical holes and into the started holes on the mounting surface.
8. Secure the screws, ensuring that no part of the base can lift off the mounting surface.
9. Remove the manufacturers tape from the teeter-totter on the base. If this is not done there will be no way to measure rainfall, and no measurement will display on the indoor weather display.
10. Place the rainfall collector onto the base.
11. Place the 3 tabs (on the rainfall collector) into the tab slots (on the base) and turn counter-clockwise.



II) The Remote Temperature Sensor

The remote temperature sensor can be mounted in two ways:

- with the use of screws
- using the adhesive tape

A. Mounting with Screws

1. Remove the mounting bracket from the remote temperature sensor.
2. Place the mounting bracket over the desired location. Through the three screw holes of the bracket, mark the mounting surface with a pencil.
3. Where marked, start the screw holes into mounting surface.
4. Screw mounting bracket onto the mounting surface. Ensure that the screws are flush with the bracket.

B. Mounting with Adhesive Tape

1. 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.
2. Remove the protective strip from one side of the tape.
3. Adhere the tape to the designated area on the back of the mounting bracket.
4. Remove the protective strip from the other side of the tape.
5. Position the remote temperature sensor in the desired location, ensuring that the indoor temperature station can receive the signal.

III) The Indoor Weather Station

The indoor weather station can be mounted in two ways:

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

A. Using the Table Stand

The indoor weather 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 weather station in an appropriate location.

B. Wall Mounting

1. Remove the table stand.
2. To do this, pull down on the stand from the rear and rotate forward.
3. Fix a screw (not included) into the desired wall leaving approximately 3/16 of an inch (5mm) extended from the wall.
4. Place the indoor temperature station onto the screw using the hanging hole on the backside.

5. Gently pull the station down to lock the screw into place.

OPERATION OF THE WIRELESS WEATHER STATION

A) Viewing the Temperature (Remote and Indoor)

1. The indoor temperature will display in the Temperature portion of the LCD.
2. To View the remote temperature press and release the “*RESET*” button.
3. Press and release the “*RESET*” button to return to the indoor temperature.

B) Viewing the Rainfall

1. The rainfall total will be displayed in the Rainfall portion of the LCD.
2. To reset the rainfall total to 0.00 press and hold the “*RESET*” button for 3 seconds.

TROUBLESHOOTING

NOTE: For problems not solved please contact RadioShack.

Problem: The LCD is faint

Solution: Replace batteries

Problem: No outdoor temperature is displayed.

Solution:

1. Remove all batteries, reinsert into remote rain sensor first, then into the remote temperature sensor and then into the indoor temperature station.
2. Place remote temperature sensor closer to the indoor weather station.
3. Be sure all batteries are fresh.
4. Place remote temperature sensor and indoor weather station in a 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.

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). Also, 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.

Problem: "OFL" appears in LCD.

Solution: Follow Reset directions (total rainfall accumulation has exceeded 999.99in.).

Problem: "---" Appears in the LCD (indoor weather display has lost signal from remote rain sensor).

Solution:

1. Follow reset directions and restart the units.
2. Ensure the distance the indoor weather display remote rain sensor is at least 6 feet (2m) away from interfering sources on a 433 MHz signal such as computers, TV sets, headphones, speakers, etc.
3. Move indoor weather display away from metal window frames.

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.

SPECIFICATIONS

Transmitting Frequency	433MHz
Measuring Temperatures	
Indoor weather station	32°F to 156.2°F with 0.2 °F resolution (0°C to 69.0°C with 0.1°C resolution)
Remote temperature sensor	-21.8 °F to 156.2°F with 0.2°F resolution (-29.9°C to 69.0°C with 0.1°C resolution)
Temperature 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)	
Indoor weather station	2 x AA, 1.5V
Remote temperature sensor	2 x AA, 1.5V
Remote rain sensor	2 x AA, 1.5V
Dimensions: (L x W x H)	
Indoor weather station	2.36 x .88 x 5.90 in. (excluding table stand) (60 x 22.5 x 150 mm)
Remote temperature sensor	2.32 x 0.86 x 2.55 in. (59 x 22 x 65 mm)
Remote rain sensor	5.19in diameter x 7.20in high (132mm diameter x 183mm high)
Battery life	Approximately 1 year

WARRANTY INFORMATION

La Crosse Technology provides a 1-year warranty on this indoor weather station. Contact La Crosse Technology immediately upon discovery of any defects covered by this warranty.

Before sending the indoor weather station in for repairs, contact La Crosse Technology. The indoor weather station will be repaired or replaced with the same or similar model.

This warranty does not cover any defects resulting from improper use, unauthorized repairs, faulty batteries, or the indoor weather stations inability to receive a signal due to any source of interference.

LA CROSSE TECHNOLOGY WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS INDOOR WEATHER STATION. THIS PRODUCT IS NOT TO BE USED FOR MEDICAL PURPOSES OR FOR PUBLIC INFORMATION. THIS PRODUCT IS NOT A TOY. KEEP OUT OF CHILDRENS' 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
190 Main Street
La Crescent, MN 55947
Phone: 507.895.7095
Fax: 507.895.8000

e-mail:

support@lacrossetechnology.com
(warranty work)

sales@lacrossetechnology.com
(information on other products)

web:

www.lacrossetechnology.com

FCC ID: OMO-01RX (Receiver), OMO-01TX (transmitter)

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 INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE**