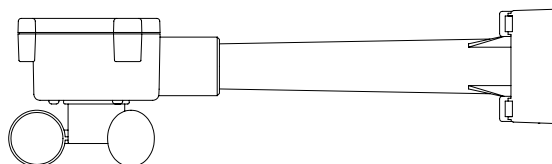


## TX15U Wind Speed Sensor

The TX15U wind sensor is used in conjunction with the TX8U temperature/ humidity sensor to gather and transmit information to your wireless weather station. The TX15U wind sensor measures the wind speed and sends the information to the TX8U temperature/ humidity sensor. This sensor then transmits all outdoor weather information from both outdoor sensors to the display indoors.

### INVENTORY OF CONTENTS

1. TX15U wind sensor
2. Mounting bracket
3. Mounting hardware
4. Instruction manual and warranty card



### QUICK SET-UP GUIDE

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

1. Have the indoor weather station, remote temperature/humidity sensor and wind speed sensor 3 to 5 feet apart.
2. Insert the telephone plug (RJ-11) from the wind speed sensor into the receptacle on the remote temperature/humidity sensor.
3. Batteries should be out of both the indoor weather station and remote temperature/humidity sensor units for 10 minutes.
4. Place the batteries into the **remote temperature/humidity sensor** first then into the **indoor weather station**.
5. **DO NOT PRESS ANY BUTTONS FOR 15 MINUTES.**

In this time the indoor weather station and remote temperature/humidity sensor will start to talk to each other and the display will show the indoor temperature/humidity, outdoor temperature/humidity and wind speed. If the indoor weather station does not display all information after the 15 minutes please retry the set up as stated above. After all information has been displayed for 15 minutes you can place your sensors outdoors and set your time.

### Important Notes on Set-up and Operation

- The remote temperature/humidity sensor is both the source of power for both outdoor sensors and source of transmission for all remote sensor data.
- The remote temperature/humidity sensor should be placed in a dry, shaded area.
- Fog and mist will not harm your remote temperature/humidity sensor but direct rain must be avoided.
- Direct rainfall will not harm the wind speed sensor.
- The remote temperature/humidity sensor has a range of 300 feet. Any walls that the signal will have to pass through will reduce distance. An outdoor wall or window can have up to 30 feet of resistance and an interior wall can have up to 20 feet of resistance. Your distance plus resistance should not exceed 300 ft. in a straight line.
- The remote temperature/humidity sensor transmits a signal every minute. After the batteries have been installed, the indoor weather station will search for the signal for a duration of 15 minutes. If there is no temperature or humidity reading in the OUTDOOR LCD or wind speed in the WIND SPEED LCD after 15 minutes, make sure the units are within range of each other, or repeat the battery installation procedure.
- If a button is pressed before the indoor weather station receives the signal from the remote temperature/humidity sensor, you will need to follow the battery installation procedure again.

To complete the set up of your new wireless weather station after the 15 minutes have passed please follow the steps that follow in the Detailed Set-Up Guide.

## DETAILED SET-UP GUIDE

### BATTERY INSTALLATION

The first step to powering up the weather station is to insert the connector (RJ11) at the end of the wire attached to the wind speed sensor to the remote temperature/humidity sensor. Please ensure when doing this that the connector is inserted with the proper orientation. When seated properly you will hear the connector 'click' in place.

#### A. REMOTE TEMPERATURE/HUMIDITY SENSOR

1. Remove the mounting bracket and humidity hood.
2. Remove the battery cover by sliding the cover down.
3. Observing the correct polarity install 2 AA batteries. The batteries will fit tightly (to avoid start-up problems make sure they do not spring free).
4. Replace the battery cover by sliding upwards. Be sure battery cover is on securely.
5. Replace the humidity hood.

#### B. INDOOR WEATHER STATION

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. Observe the correct polarity, and install 3 AA batteries.
3. Replace the battery cover.

**Note:** Immediately after the batteries have been installed, the LCD (Liquid Crystal Display) will flash. Within 15 seconds the indoor temperature, indoor relative humidity, and the weather icons (sun and clouds) will be displayed. If not, remove batteries for 10 seconds and reinstall. If the outdoor temperature is not displayed within four minutes, remove batteries from both units, wait 30 seconds, and reinstall making sure to install batteries into the remote temperature sensor first. The time will show --- and start searching for the WWVB signal. If it successfully receives the time signal (usually at night), it will display the correct time (default time-zone is Eastern). You will need to adjust the time zone to match your local time.

## MOUNTING

**Note:** Before permanently mounting ensure that the indoor weather station is able to receive WWVB signals from the desired location. Also, extreme and sudden changes in temperature will decrease the accuracy of the indoor weather station, and changes in elevation will result with inaccurate weather forecasting for the next 12 to 24 hours. These changes will require a 12 to 24 hour wait before obtaining reliable data. To achieve a true temperature reading, avoid mounting where direct sunlight can reach the remote temperature/humidity sensor or indoor weather station. While the remote temperature/humidity sensor is weather proof, avoid submersion in water or snow. We recommend that you mount the remote temperature/humidity sensor on an outside North-facing wall. The sending range is 300ft—obstacles such as walls, concrete, and large metal objects can reduce the range. Place both units in their desired location, and wait approximately 15 minutes before permanently mounting to ensure that there is proper reception. The indoor weather station should display a temperature and humidity in the OUTDOOR LCD and wind speed (can be 0.0) in the WIND SPEED LCD within 4 minutes of setting up.

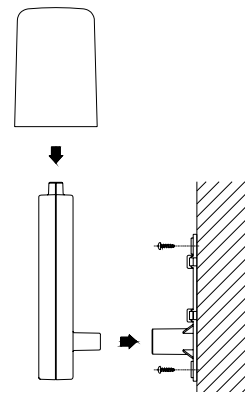
### I. THE REMOTE TEMPERATURE/HUMIDITY SENSOR

The remote temperature/humidity sensor can be mounted in several ways:

- With the use of screws
- Using adhesive tape
- Using nylon straps

#### A. MOUNTING WITH SCREWS

- 1) Remove the mounting bracket from the remote temperature/humidity sensor.
- 2) Place the mounting bracket over the desired location.
- 3) Through the two screw holes of the bracket, mark the mounting surface with a pencil.
- 4) Screw mounting bracket onto the mounting surface. Ensure that the screws are tight against the bracket.
- 5) Insert the remote temperature/humidity sensor into the bracket.

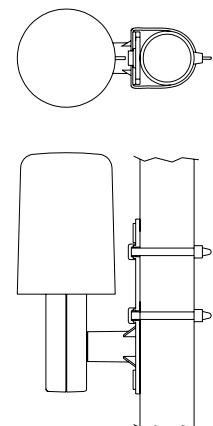


#### B. MOUNTING WITH ADHESIVE TAPE

- 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/humidity sensor in the desired location, ensuring that the indoor weather station can receive the signal.

#### C. MOUNTING WITH NYLON STRAPS

- 1) Remove the mounting bracket from the remote temperature/humidity sensor.
- 2) Place two nylon straps through the slots on the mounting bracket.
- 3) Place the remote temperature/humidity sensor in your desired mounting location.
- 4) Fasten the two nylon straps securely around the mounting location.



## II. THE REMOTE WIND SPEED SENSOR

The remote wind speed sensor can be mounted two ways:

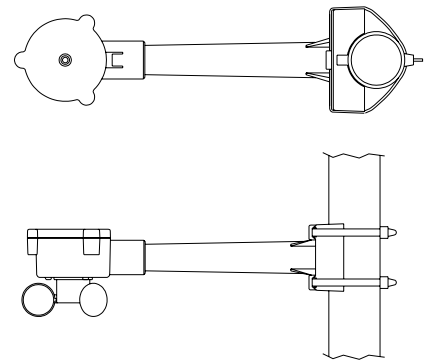
- With the use of screws
- Using nylon straps

### A. MOUNTING WITH SCREWS

- 1) Unlock the mounting bracket from the remote wind speed sensor leaving the wire going through the bracket.
- 2) Place the mounting bracket over the desired location.
- 3) Through the two screw holes of the bracket, mark the mounting surface with a pencil.
- 4) Screw the mounting bracket onto the mounting surface. Ensure that the screws are tight against the bracket.
- 5) Slide the remote wind speed sensor onto the bracket making sure to lock it in place.

### B. MOUNTING WITH NYLON STRAPS

- 1) Unlock the mounting bracket from the remote wind speed sensor leaving the wire going through the bracket.
- 2) Place two nylon straps through the slots on the mounting bracket.
- 3) Place the remote wind speed sensor in your desired location.
- 4) Fasten the two nylon straps securely around the mounting location.
- 5) Slide the remote wind speed sensor onto the bracket making sure to lock it in place.



## III. THE INDOOR WEATHER STATION

- 1) Fix a screw (not included) into the desired wall, leaving approximately 3/16 of an inch (5mm) extended from the wall.
- 2) Place the indoor weather station onto the screw using the hanging hole on the backside.
- 3) Gently pull the indoor weather station down to lock the screw into place.

## TROUBLESHOOTING

**NOTE:** For problems not solved, please contact La Crosse Technology.

**Problem:** No reception of WWVB time signal.

**Solution:** 1) Wait overnight for signal.

- 2) Be sure indoor weather station is at least 6 feet from any electrical devices, such as televisions, computers, or other radio-controlled clocks.
- 3) Remove batteries for five minutes, reinsert and leave the unit alone overnight without pressing buttons.
- 4) If there are still problems, contact La Crosse Technology.

**Problem:** Hour is incorrect (minute and date are correct).

**Solution:** Be sure correct time zone and daylight saving time settings are selected.

**Problem:** The LCD is faint.

**Solution:** 1) Set the LCD contrast to a higher number.

- 2) Replace the batteries

**Problem:** No outdoor temperature/humidity and/or wind speed is displayed.

**Solution:** 1) Disconnect the cable from the remote wind speed sensor, then reinsert making sure the cable clicks in place.

- 2) Remove all batteries, reinsert into remote temperature/humidity sensor first, then the indoor weather station.
- 3) Place the remote temperature/humidity sensor closer to the display.
- 4) Be sure all batteries are fresh.
- 5) Place the remote temperature/humidity sensor and indoor 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.

**Solution:** Each temperature/humidity sensor is manufactured to be accurate to within 2 degree plus or minus and under normal conditions, so two sensors could be as much as 4 degrees different. However, the difference can be exaggerated further because the sensors are designed for different working environments. The indoor temperature 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 remote temperature/humidity 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.
- Immediately remove all low powered batteries to avoid leakage and damage.
- Opening the casings invalidates the warranty. Do not try to repair the unit. Contact La Crosse Technology for repairs.

## SPECIFICATIONS

<b>Weather Data Measuring Range:</b>	
Indoor:	14.2°F to 139.8°F with 0.1°F resolution (0°C to 59.9°C with 0.1°C resolution) “OFL” displayed if outside this range
Outdoor and dew point:	-21.8°F to 157.8°F with 0.1°F resolution (-29.9°C to 69.9°C with 0.1°C resolution) “OFL” displayed if outside this range
Wind chill:	-21.8°F to 157.8°F with 0.1°F resolution (-29.9°C to 69.9°C with 0.1°C resolution) “OFL” displayed if outside range
Indoor relative humidity measuring range:	1% to 99% with 1% resolution ("-" displayed if outside this range)
Outdoor relative humidity measuring range:	1% to 99% with 1% resolution ("-" displayed if outside this range)
Wind speed measuring range:	0 to 111.8 mph (0 to 50 m/s)
<b>Weather Data Checking Interval:</b>	
Indoor temperature checking interval:	Every 15 seconds
Indoor humidity checking interval:	Every 20 seconds
Outdoor temperature checking interval (remote temperature/humidity sensor):	Every 128 seconds
Outdoor humidity checking interval:	Every 128 seconds
Wind speed checking interval:	Average of 128 seconds with highest gust
Outdoor temperature, humidity and wind speed reception (indoor weather station):	Every 128 seconds
Transmission range:	300 feet (in open space)
<b>Power Supply:</b>	
Indoor weather station:	3 x AA, IEC LR6, 1.5V
Remote temperature/humidity sensor:	2 x AA, IEC LR3, 1.5V
Remote wind speed sensor:	Supplied by remote temperature/humidity sensor
Battery life cycle:	Approximately 12 months
Recommended battery type:	Alkaline
<b>Dimensions (H x W x D):</b>	
Indoor weather station:	9" x 4.62" x 1.25" (227 x 117.4 x 31.2 mm)
Remote temperature/humidity sensor:	5.4" x 2.25" x 2.25" (137 x 56.2 x 56.2 mm)
Remote wind speed sensor:	7.5" x 2.2" x 2.2" (191.2 x 55.8 x 56 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 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 reasonable return shipping charges to the owner of the product.

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  
190 Main Street  
La Crescent, MN 55947  
Phone: 507.895.7095  
Fax: 507.895.2820

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

[sales@lacrossetechnology.com](mailto:sales@lacrossetechnology.com)  
(information on other products)

web:  
[www.lacrossetechnology.com](http://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.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

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

Freq. 433.92 MHz  
La Crosse Technology  
Made in China  
TX15U

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