TX-23U WIND SENSOR

The TX-23U wind sensor is used in conjunction with the TX22U relay transmitter to gather and transmit information to the WS-1610 wireless weather station.

INVENTORY OF CONTENTS

- 1. TX-23U wind sensor
- 2. Mounting bracket
- 3. Mounting hardware
- 4. Instruction manual and warranty card



SETTING UP

When putting the Weather Station into operation, it is important to perform in close proximity (e.g. on a table) a complete wiring and setup of the system. This step is important to test all components for correct function before placing and mounting them at their final destinations.



 Unwind the cables of the Rain and the Wind sensors. Connect the Rain and the Wind sensors to the Thermo-hygro transmitter by plugging the connector heads of the two sensors into the appropriate sockets of the Thermo-hygro transmitter. Be sure they "click" into place.



2. First insert the batteries into the Thermo-hygro transmitter .



 Then insert the batteries into the Weather Station. Once the batteries are installed, all segments of the LCD will light up briefly and a short signal tone will be heard. It will then display the time as 12:00, the date as 1.1.05, the weather icons, and air pressure value. "- - -" will be shown for outdoor data.

- 4. Afterwards, the Weather Station will start receiving data from the transmitter. The outdoor temperature, humidity wind chill and wind speed should then be displayed on the Weather Station. If this does not happen after 30 seconds, the batteries will need to be removed from both units. You will have to start again from step 1.
- 5. You may then check all cables for correct connection and all components for correct function by manually turning the wind-gauge, moving the weather-vane, tilting the rain sensor to hear the impact of the internally moving seesaw, etc.
- 6. Time and date shall be manually set.
- 7. After the Weather Station has been checked for correct function with regard to the above points and found fit, the initial set up of the weather station system is finished and the mounting of the system components can take place. It must be ensured however that all components work properly together at their chosen mounting or standing locations. If e.g. there appear to be problems with the 915 MHz radio transmission, they can mostly be overcome by slightly changing the mounting locations.

Note:

The radio communication between the receiver and the transmitter in the open field reaches distances of max 330 feet (100 metres), provided there are no interfering obstacles such as buildings, trees, vehicles, high voltage lines, Ham radio antennae, etc.

Radio interferences created by PC screens, cordless phones, radios or TV sets can in some cases entirely cut off radio communication. Please take this into consideration when choosing standing or mounting locations.

Note :

- After batteries are installed in transmitter, user shall also power up the weather station to receive the signal from the transmitter as soon as possible. If the weather station is powered after about more than 5 hours the transmitter is powered, the weather station will never receive signal successfully from this transmitter. In this case, user will need to reinstall the batteries from the transmitter to redo setting-up procedures.
- Detailed Set up procedures of the Weather Station, the Thermo-hygro Transmitter, the Rain sensor and the Wind Sensor refer to the main operation manual of WS-1610.

MOUNTING

Mount at least 3 feet above the roofline of your house. Please be sure there is clear area in every direction from buildings, trees, hills etc. Thread the cord through the mounting bracket and attach bracket to a mast no larger than 1 1/8 inch in diameter. Please note the N,S,E,W on the sensor. The mounting bracket will be on the West side for correct direction. When plugging into the TH sensor be sure the cord "clicks" into place. You may need to use a pen to push it in.

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 relay transmitter or indoor weather station. While the relay transmitter is weather proof, avoid submersion in water or snow. We recommend that you mount the relay transmitter on an outside North-facing wall, 12 inches below the eaves. The sending range is 330 ft 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.

The remote wind speed sensor can be mounted two ways: • With the use of screws

Using nylon straps



Α. 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. Through the two screw holes of the bracket, mark the 3.
- mounting surface with a pencil. 4. Screw the mounting bracket onto the mounting surface.
- Ensure that the screws are tight against the bracket. Slide the remote wind speed sensor onto the bracket making 5. sure to lock it in place.

Β. MOUNTING WITH NYLON STRAPS

- Unlock the mounting bracket from the remote wind speed 1. 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.

MAINTENANCE AND CARE

- Extreme temperatures, vibrations, and shock should be avoided to prevent damage to the units
- Clean displays and units with a soft, damp cloth. Do not use 2. solvents or scouring agents, they may mark the displays and casings
- 3 Do not submerge in water.
- Do not subject the units to unnecessary heat or cold by placing 4. them in the oven or freezer.
- Opening the casings invalidates the warranty. Do not try to repair 5 the unit. Contact La Crosse Technology for repairs.

SPECIFICATIONS

Note:

Detailed Specification of the Weather station, the Thermo-hygro Transmitter, the Rain sensor and the Wind sensor refer to the main operation manual of WS-1610.

Wind measurement:	
Wind Speed range:	0 to 111.8 mph (0 to 50 m/s) (displayed "OF.L" when > 50m/s)
Units:	km/h, m/s, mph & Beaufort
Resolution:	0.1 m/s / 0.1 mph / 0.1 km/h
Wind Direction:	By compass scale of 16 divisions
Wind speed checking interval:	Every 4.5 seconds
Transmission range:	330 feet (100 meters) in open space
Power Supply:	
Remote wind speed sensor:	Supplied by remote Relay Transmitter
Dimensions (H x W x D):	
Remote wind speed sensor:	9.84" x 6.45" x 7.58" (250 x 164 x 192.7 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

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:

- This device may not cause harmful interference. (1)
- This device must accept any interference received, including (2)interference that may cause undesired operation.

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