**La Crosse Technology®**
Tomorrow's Weather Today™

TX-63U-IT
SOLAR WIND SENSOR

The TX63U-IT Solar Wind sensor is used in conjunction with the TX59U-IT relay transmitter to gather and transmit information to the wireless Weather Station (e.g. WS-2812U-IT).

INVENTORY OF CONTENTS
1. TX-63U-IT Solar Wind sensor
2. One Plastic reset rod.
3. Mounting bracket
4. Mounting hardware
5. Instruction manual

TX63U-IT

Wind vane
Solar Panel
Wind cup
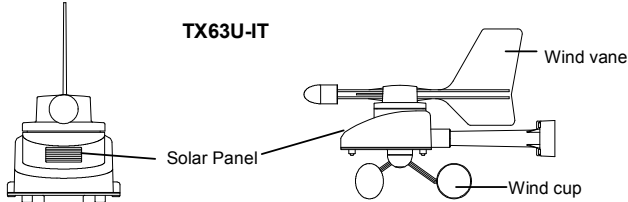
START THE SOLAR WIND SENSOR
During the first time of operation, user has to remove the mask that covered on the solar panel then gently press the RESET button once in the bottom of the device by the provided Plastic reset rod to wake it up.

Note: It is important to allow sufficient light to reach the solar panel while activating the Solar Wind sensor. Make sure the lights are on in the setup room and the solar panel is facing a 60W light bulb or brighter – do not cover with hands or other objects.

RESET button

Bottom of the Solar Wind sensor
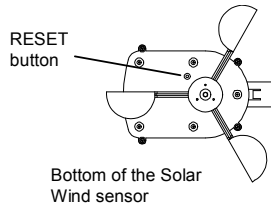
IDLE MODE
This mode aims to reduce power consumption of the transmitter. Under this mode, the sensor stops the transmission of signal, checks the battery voltage and detects the solar cell condition. The IDLE mode happens if the battery voltage is low.

Note: The sensor will check and charge up the internal rechargeable battery automatically, when it detects the battery voltage raises up to sufficiently high enough, the transmission of signal starts again.
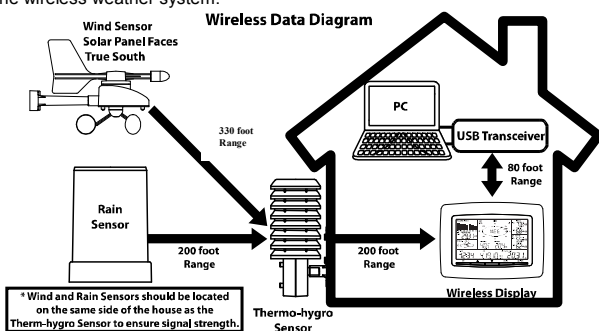
STOP MODE
It is the most energy saving mode. Under this mode, the transmitter stops the transmission of signal, no checking battery voltage, no detecting the solar cell condition and force it stop charge batteries. The STOP mode happens:

- If the user covers the solar cell for 10 seconds and presses the RESET button.
  Note: To restart the Solar Wind sensor, user should place the sensor in a bright environment then press the RESET button once to wake it up again.

- If the sensor is placed in the dark environment for 72 hours.
  Note: To restart the Solar Wind sensor, user should move the wind cup or place the sensor in a bright environment then press the RESET button once to wake it up again.

IMPORTANT! During the restart process, if the battery voltage is sufficiently high enough, the transmission of signal starts again. However, if the battery voltage is low, the sensor enters into IDLE mode. User should place the sensor under a bright environment in order to charge up the rechargeable batteries inside the sensor.

SETTING UP
Follow the setup process below to make sure this device can work properly with the wireless weather system:

Wireless Data Diagram

Wind Sensor Solar Panel Faces True South
330 foot Range
PC
USB Transceiver
80 foot Range
Rain Sensor
200 foot Range
200 foot Range
Wireless Display
Thermo-hygro Sensor
*Wind and Rain Sensors should be located on the same side of the house as the Therm-hygro Sensor to ensure signal strength.

1. All sensors should be ready for the setup process. First, insert batteries to the Rain sensor, and then switch on the Solar Wind sensor by pressing its RESET button. Finally, insert batteries to the Thermo-Hygro sensor. **IMPORTANT!** Make sure the correct polarity when inserting batteries. Inserting the batteries incorrectly may result in permanent damage to the units. Only use alkaline batteries, rechargeable batteries may not work.
2. Insert batteries into the Weather Station, e.g. the model WS-2812U-IT. *Note:* During the setup process, place the wireless display and the outdoor sensors on a surface with 3-10 feet between the sensors and the display.
3. The Weather Station receives data from the Thermo-Hygro sensor. The collected information should be displayed on the Weather Station, including the outdoor temperature, humidity, rainfall, wind-chill and wind-speed and wind-direction.
   Note: Every time the Weather Station receives data from the sensors, the wireless icons will blink once and then return to solid if the last transmission was successful. A wind speed or rainfall amount that reads "0" does not mean reception failure, it means that there was no wind or rain at the time of the last measurement. If the sensor data fails to display for any of the outdoor sensors within 10 minutes, ("- - -" is displayed), Remove the batteries from all units for 1 minute and start again from step 1.
4. You may then check 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.
5. Time and date shall be manually set for the Weather Station.
6. After the Weather Station has been checked for correct function with regard to the above points, the initial set up of the wireless weather system is finished and the mounting of the system components can take place.
   Note: The Weather Station and the Thermo-Hygro sensor should be set within the reception distance (up to 200 feet / 60 meters in open space). The Thermo-Hygro sensor and the Rain sensor should be set within the reception distance (up to 200 feet / 60 meters in open space). The Thermo-Hygro sensor and the Solar wind sensor should be set within the reception distance (up to 330 feet / 100 meters in open space). The Rain sensor and the Solar Wind sensor should be mounted on the same side of the house 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.

Detailed setup procedures of the wireless weather system, refer to the main operation manual of the Weather Station.
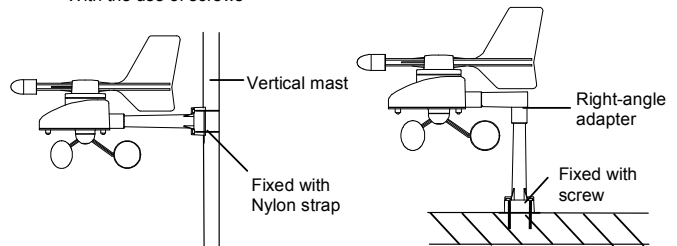
MOUNTING
The Solar Wind sensor must be installed with the solar panel facing true South, or the reported wind direction will not be accurate. This device should be mounted within the reception distance (up to 330 feet / 100 meters in open space) of the Thermo-Hygro sensor and on the same side of the house. 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.

Mount the wind sensor onto a mast so the wind can reach the sensor unobstructed from all directions for an accurate reading. The ideal mast is between 0.62" and 1.3" in diameter. Secure the main unit to the shaft of the mast holder. Use the right-angle adapter if the wind sensor will be mounted on a horizontal mast or surface.

The remote wind speed sensor can be mounted two ways:
- Using nylon straps
- With the use of screws

Vertical mast
Fixed with Nylon strap
Right-angle adapter
Fixed with screw

MOUNTING WITH NYLON STRAPS
1. Place two nylon straps through the slots on the mounting bracket.
2. Place the Solar Wind sensor in your desired location.
3. Fasten the two nylon straps securely around the mounting location.
4. Slide the Solar Wind sensor onto the bracket making sure to lock it in place.

MOUNTING WITH SCREWS
1. Place the mounting bracket over the desired location.
2. Through the two screw holes of the bracket, mark the mounting surface with a pencil.
3. Screw the mounting bracket and right-angle adapter onto the mounting surface. Ensure that the screws are tight against the bracket, but do not over-tighten the screws, or the mast holder may break.
4. Slide the Solar Wind sensor onto the bracket. Make sure to lock it in place.

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

SPECIFICATIONS

Wind Speed range:	0 to 111.8 mph (0 to 50 m/s) (displayed "OF.L" when > 50m/s)
Units:	mph, km/h, m/s, Beaufort & knot
Resolution:	0.22mph / 0.1 m/s / 0.36 km/h / 0.19 knot
Gust Resolution:	1.34 mph / 0.6 m/s / 2.16 km/h / 1.16 knot
Wind Direction:	By compass scale of 16 divisions
Transmission period:	Every 17 seconds
Transmission frequency:	924MHz
Transmission range:	Up to 330 feet (100 meters) in open space
Power sources:	Solar power and internal rechargeable batteries
Dimensions(Lx W x H):	250 x 145.9 x 192.3 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
2817 Losey Blvd. South
La Crosse, WI 54601

The complete instruction manual is available at:
www.lacrossetechnology.com/support

Le manuel d'instruction complet est disponible sur:
www.lacrossetechnology.com/support

El manual de instrucciones completo está disponible en:
www.lacrossetechnology.com/support