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## WS-9625U-IT 915 MHz WIRELESS WEATHER STATION

### Instruction manual



Tomorrow's Weather Today™



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**Manual abstract:**

Wireless Thermo-hygro Sensor (TX21U-IT) and mounting bracket. 3. Instruction Manual and Warranty Card. 4. @@@@First, insert the batteries into the thermo-hygro sensor. (see "Install and replace batteries in the thermo-hygro sensor "). 2. Immediately after and within 30 seconds, insert the batteries into Weather Station (see "Install and replace batteries in the Weather Station"). Once the batteries are in place, all segments of the LCD will light up briefly.

Following the time as 12:00 and the "Oscar Outlook" icon will be displayed.

If these are not displayed after 60 seconds, remove the batteries and wait for at least 10 seconds before reinserting them. 3. After inserting the batteries into the sensor, the Weather Station will start receiving data from the sensor. The outdoor temperature and humidity and the signal reception icon should then be displayed on the Weather Station. If this does not happen after 3 minutes, the batteries will need to be removed from both units and reset from step 1.

9 4. In order to ensure sufficient 915 MHz transmission however, this should under good conditions be a distance no more than 100 meters between the final position of the Weather Station and the sensor (see notes on "Mounting" and "915 MHz Reception"). When more than one sensor is to be used 1. User shall remove all the batteries from the Weather Station and sensors and wait 60 seconds if setting has been done with one sensor before. 2.

Insert the batteries to the first sensor. 3. Within 30 seconds of powering up the first sensor, insert the batteries to the Weather Station. Once the batteries are in place, all segments of the LCD will light up briefly. Following time as 12:00 and the Oscar Outlook icon will be displayed. If they are not shown in LCD after 60 seconds, remove the batteries and wait for at least 60 seconds before reinserting them. 4. The outdoor temperature and humidity from the first sensor (channel 1) should then be 10 5. displayed on the Weather Station. Also, the signal reception icon will be displayed.

If this does not happen after 2 minutes, the batteries will need to be removed from both units and reset from step 1. Insert the batteries to the second sensor as soon as the outdoor temperature readings from the first sensor are displayed on the Weather Station. Note: User shall insert the batteries into the second sensor within 30 seconds of reception of the first . 6. The outdoor temperature and humidity from the second sensor and the "channel 2" icon should then be displayed on the Weather Station. If this does not happen after 2 minute, the batteries will need to be removed from all the units and reset from step 1. Insert the batteries to the third sensor as soon as the "channel 2" icon and outdoor data are displayed on the Weather Station. Then within 2 minutes, the channel 3 outdoor data from the third sensor will be displayed and the channel icon will shift back to "1" once the third 7. 11 sensor is successfully received. If this is not happen, user shall restart the setting up from step 1.

Note: User shall insert the batteries into the third sensor within 30 seconds of reception of the second sensor. 8. In order to ensure sufficient 915 MHz transmission there should be no more than 330 feet (100 meters) between the final position of the Weather Station and the sensor (see notes on "Mounting" and "915 MHz Reception"). Note: If the signal reception is not successful on the first frequency (915MHz) for 45 seconds, the frequency is changed to 920MHz and the learning is tried another 45 seconds. If still not successful the reception is tried for 45 seconds on 910MHz.

This will also be done for resynchronization. 12 IMPORTANT: Transmission problems will arise if the setting for additional sensors is not followed as described above. Should transmission problems occur, it is necessary to remove the batteries from all units and start again the set-up from step 1. 9. Once the remote temperature has been received and displayed on the Weather Station, the Atomic time (WWVB time) code reception is automatically started.

This takes typically between 3-5 minutes in good conditions. If after 10 minutes, the Atomic Time (WWVB) time has not been received, press the SET key to manually enter a time initially. Daily WWVB reception (Atomic time) is attempted at full hour between 12:00 am to 6:00 am. If the reception is successful, there will no reception attempt until the following day. When this is successful, the received time will override the manually set time. The date is Note: · · 13 also updated with the received time. (Please refer also to notes on "Atomic time WWVB Radio controlled Time" and "Manual Time Setting") BATTERY INSTALLATION INSTALL AND REPLACE BATTERIES IN THE WEATHER STATION The Weather Station uses 2 x AA, IEC LR6, 1.5V batteries. To install and replace the batteries, please follow the steps below: 1. 2.

3. Remove the cover at the back of the Weather Station. Insert batteries observing the correct polarity (see marking). Replace compartment cover. 14 INSTALL AND REPLACE BATTERIES IN THE THERMO-HYGRO SENSOR The sensor uses 2 x AA Alkaline batteries. To install and replace the batteries: 1. Remove the Protective Rain Cover. 2. Remove the Battery Cover. 3.

Observing the correct polarity, install 2 "AA" Alkaline Batteries--make sure they do not spring free, or start-up problems may occur. Replace the Battery Cover. Rain protection cover Battery Cover Battery Compartment 15 Note: In the event of changing batteries in any of the units, all units need to be reset by following the setting up procedures. This is because a random security code is assigned by the sensor at startup and this code must be received and stored by the Weather Station in the first 3 minutes of power being supplied to it BATTERY CHANGE: It is recommended to replace the batteries in all units regularly to ensure optimum accuracy of these units (Battery life See Specifications below). Please participate in the preservation of the environment.

Return used batteries to an authorized depot. 16 FUNCTION KEYS: Weather Station: The Weather Station has four easy to use function keys. SET key CH key + key MIN/ MAX key 17 SET key (Setting): · To enter the set mode for the following functions: LCD contrast, Time zone, Daylight saving time ON/ OFF, Time Reception ON/OFF, 12/24 hour display, Manual time, Year, Month, Day, °F/°C, and Weather Forecast sensitivity settings. · Press to reset the minimum or maximum temperature and humidity records of the indoor or the currently selected outdoor channel (will reset all records to current level) MIN/ MAX · To toggle between the minimum/maximum outdoor temperature and minimum/maximum indoor temperature data + key · · To toggle between the "date" and "second of time" in the time display To make adjustment for various settings 18 CH key · To toggle between the Outdoor Sensors 1, 2 and 3 (if more than 1 sensor is used) · To exit from the manual setting mode 19 LCD SCREEN AND SETTINGS: Time Indoor Temperature Radio controlled time reception On icon Displays "date" or "second" Indoor Relative Humidity % Weather Tendency icon Outdoor Reception Signal\* Sensor identification (channel No.



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) Outdoor Relative Humidity % Daily outdoor max temp Weather Forecast icon (Oscar Outlook) Outdoor Temperature Low battery indicator Daily outdoor min temp 20 \*When the outdoor signal is successfully received by the Weather Station, this icon will be switched on. (If not successful, the icon will not be shown in LCD) So user can easily see whether the last reception was successful (icon on) or not (icon off). On the other hand, the short blinking of the icon shows that a reception is currently taking place. For easy viewing the LCD screen is split into 5 sections displaying the information for time and indoor data, weather forecast, and outdoor data. Section 1 - TIME AND DATE · In normal mode, display the radio controlled time and date. · Display "second" of time when the "+" key is pressed · A time signal reception symbol will be shown indicating that receiver is receiving atomic controlled time 21 Section 2 - INDOOR TEMPERATURE AND INDOOR HUMIDITY · Display the current indoor temperature and humidity. Section 3 - WEATHER ICON (FEATURING OSCAR OUTLOOK FORECASTER) · The weather is displayed in form of 15 weather icons (featuring Oscar Outlook Forecaster) which change in appearance depending on the air pressure development (past air pressure change) and the current outdoor temperature. · Display the weather tendency indicator · A signal reception symbol will be shown indicating that receiver is receiving outdoor data · Format of the Oscar Outlook icons refers to the "WEATHER FORECAST AND TENDENCY" Section 4 - OUTDOOR TEMPERATURE AND OUTDOOR HUMIDITY · Display the outdoor temperature and outdoor humidity of the currently selected channel. 22 SECTION 5 DAILY MIN AND MAX TEMPERATURE · Display the daily minimum and maximum temperature of the currently selected outdoor channel. ATOMIC TIME FUNCTION - WWVB RADIO CONTROLLED TIME The NIST (National Institute of Standards and Technology--Time and Frequency Division) WWVB radio station is located in Ft. Collins, Colorado, and transmits the exact time signal continuously throughout the United States at 60 kHz.

The signal can be received up to 2,000 miles away through the internal antenna in the Wireless Weather Station. However, due to the nature of the Earth's Ionosphere, reception is very limited during daylight hours. The Wireless Weather Station will search for a signal every night when reception is best. The WWVB radio station receives the time data from the NIST Atomic clock in Boulder, Colorado. A team of atomic physicists is continually measure the Weather Station is not able to detect the Atomic time (WWVB) signal (disturbances, transmitting distance, etc.), the time can be manually set. The clock will then work as a normal Quartz clock. Hours (flashing) Minutes (flashing) 31 To set the clock: 1. The hour digits start flashing in the time display section. 2. Use the + key to adjust the hours and then press SET key to go to the minute setting. 3. The minute will be flashing. Press the + key to just the minutes. 4. Confirm with the SET key and enter the "Calendar Setting" or exit the setting mode by pressing the CH key Note: Daily WWVB reception (Atomic time) is attempted at full hour between 12:00 am to 6:00 am. If the reception is successful, there will no reception attempt until the following day. When this is successful, the received time will override the manually set time. The date is also updated with the received time. 32 CALENDAR SETTING Year "Date. Month." (for 24h time display) "Month. Date." (for 12h time display) 33 The date default of the Weather Station is 1. 1. of the year 2006 after initial set-up. Once the radio-controlled time signals are received, the date is automatically updated. @@To do this: 1. Using the + key, set the year required. The range runs from 2003 to 2029 (default is 2006).

2. Press the SET key to enter the month setting mode. 3. The month digit will be flashing. @@4. The date digit will be flashing. Press the + key to set the date. 5. @@To select °C (degrees Celsius): 1. @@2.

@@There are 3 levels of setting: 2, 3 and 4. @@@@ Press the MIN/MAX button once, the max temperature and humidity of the selected channel will be displayed. Also the time and date of recording this data will be displayed: 45 Time and date of recording the max temperature Outdoor icon Max temperature Channel No. Max humidity Max icon 46 3.

4. By pressing MIN/MAX button once more, the min temperature and humidity of the selected channel will be shown. Also the time and date of recording this data will be displayed. Press one more time the MIN/ MAX button to advance to the indoor MIN/MAX temperature and humidity display. RESETTING THE OUTDOOR MINIMUM /MAXIMUM RECORDS Note: · · 1.

It is required to reset the outdoor MIN/MAX records of different channels separately. The outdoor MIN and MAX records are to be reset separately. In normal display mode, press the CH button to select a channel. The channel Identification No. (channel No.) will be displayed above the outdoor temperature reading. Note: The sensor number will only be displayed if more than one sensor is applied. 47 2. 3. 4.

5. 6. Press the MIN/ MAX button once. The "max" icon will be displayed. Press the SET button, this will reset the outdoor maximum temperature and humidity record to the current value. Press MIN/ MAX button once more to show the minimum data. The "min" icon will be displayed. Press the SET button, this will reset the outdoor minimum temperature and humidity record to the current value. Press three more times the MIN/MAX key to return to the normal display. DISPLAY OF INDOOR MINIMUM AND MAXIMUM RECORDS: 1.

In normal display mode, press the MIN/ MAX button three times. The maximum indoor temperature and humidity will be shown in the bottom section of LCD. Also the time and date of recording the data will be displayed. 48 2. Then press the MIN/MAX button one more time, the minimum indoor temperature and humidity will be shown at the bottom section of LCD.

Also the time and date of recording the data will be displayed: Time and date of recording the min data Indoor icon Min temperature Min icon Min humidity 49 3. 1. 2. 3. 4.

5. Press one more time the MIN/ MAX button to go back to the normal display. In normal display mode, press the MIN/ MAX button three times to advance to the indoor Max display. Press the SET key once, this will reset the currently shown indoor maximum temperature and humidity to the current time, date, temperature and humidity. Press the MIN/ MAX button one more time to advance to the indoor Min display. Press the SET key once, this will reset the currently shown indoor minimum temperature and humidity to the current time, date, temperature and humidity. Press the MIN/MAX button once more to return to the normal display.



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**RESETTING THE INDOOR MINIMUM /MAXIMUM RECORDS 50 DAILY MINIMUM AND MAXIMUM OUTDOOR TEMPERATURE DISPLAY** This Weather Station will display the daily minimum and maximum outdoor temperature for each outdoor channel, at the bottom of the LCD, in normal display. Channel No. Min daily temp of the channel Max daily temp of the channel 51 To view the daily minimum and maximum temperature of another channel, user shall press the CH key in normal display.

Note: The daily minimum temperature record is reset automatically at 8:00 pm and the daily maximum temperature is reset automatically at 8:00 am every day. 915 MHz RECEPTION The Weather Station should receive the temperature data within 15 minutes after set-up. If the temperature data is not received 15 minutes after setting up (not successfully continuously, the outdoor display shows "- - -"), please check the following points: 1. The distance of the Weather Station or sensor should be at least 5 to 6.5 feet (1.5 to 2 meters) away from any interfering sources such as computer monitors or TV sets. 2. Avoid positioning the Weather Station onto or in the immediate proximity of metal window frames. 52 3. 4.

Using other electrical products such as headphones or speakers operating on the same signal frequency (915MHz) may prevent correct signal transmission and reception. Neighbors using electrical devices operating on the 915MHz signal frequency can also cause interference. Note: When the 915MHz signal is received correctly, do not re-open the battery cover of either the sensor or Weather Station, as the batteries may spring free from the contacts and force a false reset. Should this happen accidentally then reset all units (see Setting up above) otherwise transmission problems may occur. The transmission range is about 330 feet (100 m) from the sensor to the Weather Station (in open space).

However, this depends on the surrounding environment and interference levels. If no reception is possible despite the observation of these factors, all system units have to be reset (see Setting up). 53 MOUNTING POSITIONING THE WEATHER STATION: The Weather Station may be hung onto wall easily or free standing. To wall mount Choose a sheltered place. Avoid direct rain and sunshine.

Before wall mounting, please check that the outdoor temperature values can be received from the desired locations. 1. Fix a screw (not supplied) into the desired wall, leaving the head extended out the by about 5mm. 2. Remove the stand from the Weather Station by pulling it away from the base and hang the station onto the screw. Remember to ensure that it locks into place before releasing. 54 Free standing With the foldout stand, the Weather Station can be placed onto any flat surface. 55 POSITIONING THE THERMO-HYGRO SENSOR: The sensor is supplied with a holder that may be attached to a wall with the two screws supplied. The sensor can also be position on a flat surface by securing the stand to the bottom to the sensor. 56 To wall mount: 1.

Secure the bracket onto a desired wall using the screws and plastic anchors. 2. Clip the remote thermo-hygro sensor onto the bracket. Note: Before permanently fixing the sensor wall base, place all units in the desired locations to check that the outdoor temperature reading is receivable. In event that the signal is not received, relocate the sensors or move them slightly as this may help the signal reception. 57 CARE AND MAINTENANCE: . . . . . Extreme temperatures, vibration and shock should be avoided as these may cause damage to the unit and give inaccurate forecasts and readings. When cleaning the display and casings, use a soft damp cloth only. Do not use solvents or scouring agents as they may mark the LCD and casings. Do not submerge the unit in water. Immediately remove all low powered batteries to avoid leakage and damage.

Replace only with new batteries of the recommended type. Do not make any repair attempts to the unit. @@ Opening and tampering with the unit may invalidate its guarantee. @@@@ 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 61 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 62 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.

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