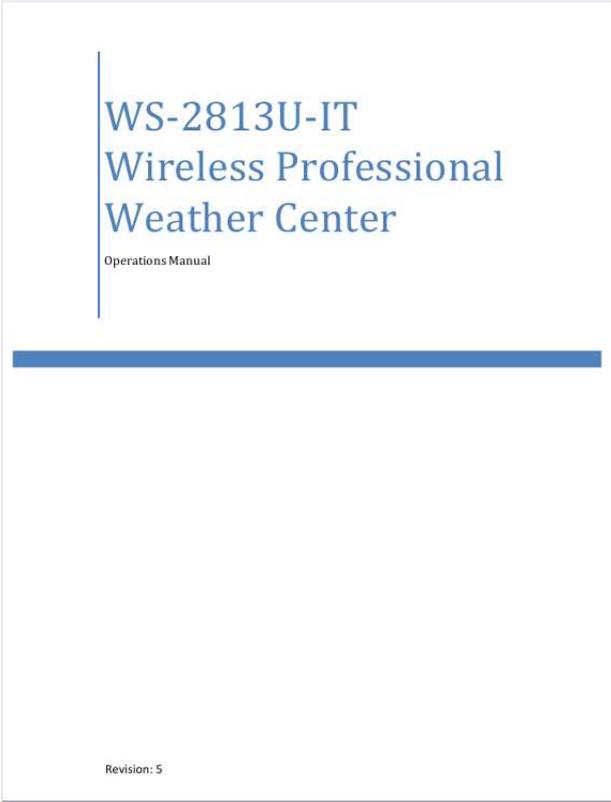




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for LA CROSSE TECHNOLOGY WS-2813U-IT. You'll find the answers to all your questions on the LA CROSSE TECHNOLOGY WS-2813U-IT in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual LA CROSSE TECHNOLOGY WS-2813U-IT
User guide LA CROSSE TECHNOLOGY WS-2813U-IT
Operating instructions LA CROSSE TECHNOLOGY WS-2813U-IT
Instructions for use LA CROSSE TECHNOLOGY WS-2813U-IT
Instruction manual LA CROSSE TECHNOLOGY WS-2813U-IT

The image shows the cover of the 'WS-2813U-IT Wireless Professional Weather Center Operations Manual'. The cover is white with blue text. At the top, it says 'WS-2813U-IT' in a large font, followed by 'Wireless Professional Weather Center' in a slightly smaller font. Below that, in a smaller font, it says 'Operations Manual'. A thick blue horizontal line is positioned below the title. At the bottom left, it says 'Revision: 5'.

WS-2813U-IT
Wireless Professional
Weather Center

Operations Manual

Revision: 5



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Manual abstract:

Review weather history data, and analyze trends and tendencies over time using the software's charts and graphing features, or export the data to a text file.

Read the Release Notes to verify the correct and most current software version and download the free Heavy Weather Pro PC software at:

<http://www.lacrossetechnology.com/support/software.php> P a g e \ 4 INVENTORY OF CONTENTS Carefully open the package and check that the following contents are complete: Wind Sensor TX63UIT Rain Sensor TX58UNIT ThermoHygro Sensor TX59UNIIT Wireless Display WS2813UIT USB Transceiver

USBTRX10 Mast holder Right angle adaptor 1 x Ubolts 2 Washers + 2 Nuts Plastic Reset Rod Contains solar rechargeable alkaline power cells. (not replaceable) Base sensor, funnel top cover and battery cover (pre assembled) Requires 2 AA alkaline batteries (not included) Airflow cover Wall mount adapter Mounting screws Plastic anchors for screws Requires 2 "C" alkaline batteries (not included) Foldout stands Requires 3 "C" alkaline batteries (not included). USB wireless interface for PC Wind Sensor also All items, including Wind Sensor, are Protected under U.S. Patents: Protected under U.S. 5,978,738; 6,076,044; & 6,597,990 Patent: 6,761,065 INSTANT TRANSMISSION is the stateoftheart new wireless transmission technology, exclusively designed and developed by La Crosse Technology®. INSTANT TRANSMISSION offers you an immediate update of all the outdoor data measured from the transmitters: follow the climatic variations in realtime! P a g e \ 5 FEATURES: WIRELESS DISPLAY Time display in 12/24 hour time format Automatic time and date (PC time) update from USB transceiver if connected; otherwise, user must manually set Calendar display (date, month, year) Weather forecast with 3 weather icons (sunny, cloudy, and rainy) with weather tendency indicator Temperature display in °F/°C: from 39.8°F to 139.8°F Humidity display in RH%: from 1% to 99% Dew point display in °F/°C: from 39.8°F to 139.

8°F Wind chill display in °F / °C: down to 39.8°F o Wind chill value is calculated from outdoor temperature and wind velocity values. MIN/MAX values of indoor/outdoor temperature, indoor/outdoor humidity, dew point display with time and date of recording Relative air pressure reading in inHg/hPa: preset range 27.10 to 31.90 inHg 24h/72h selectable pressure history graph Wind speed displayed in mph, km/h, m/s, knots, and Beaufort scale: 0 to 111. 8 mph Wind speed & direction with LCD compass display (16 steps/ 22.5 degree) MAX records for wind gust with time & date of recording Rainfall display in inch/mm: from 0" to 393.6" Rainfall data for total rain, last hour, last 24h, last week, last month Weather alarm modes: temperature, humidity, with wind and rain sensors to be placed relative to the thermohygro sensor rather than the wireless display. See Wireless Data Diagram above. The wind and rain sensors must be mounted within the 200foot wireless range of the thermohygro sensor and on the same side of the house. The wireless display must be within the 80foot wireless range of the USB transceiver to send weather data to the PC. In addition, 915 MHz sensors transmit better at a minimum mounted height of 6 feet. P a g e \ 8 If the sensor wireless icons drop from the display as you move them into their intended locations, the sensors may be too far from the wireless display. Try moving the wireless display or the sensors closer and wait a few minutes to see if the wireless icons display again. If the wireless icons are still not displayed after repositioning the sensors or the wireless display, press and hold the UP ARROW key for 2 seconds to resynchronize the wireless display with the sensors.

WIND SENSOR The wind sensor must be installed with the front of the sensor (the solar panel) facing true South, or the reported wind direction will not be accurate. Mount within the 200foot wireless range of the thermohygro sensor and on the same side of the house. The roof may or may not be an ideal mounting location. Secure the main unit to the shaft of the mast holder. Use the rightangle adaptor if the wind sensor will be mounted on a horizontal mast or surface. Fasten the wind sensor to a suitable mast using the two Ubolts, washers and nuts included. Note: Mount the wind sensor onto a mast, at a minimum height of 6 feet, 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.

The wind sensor DOES NOT have replaceable batteries; it consumes solar power and charges the internal battery pack automatically. Note: Do not open the wind sensor. This will void the warranty. RAIN SENSOR The rain sensor should be mounted on a level surface in an open area within the 200foot wireless range of the thermohygro sensor and on the same side of the house. Mount the rain sensor at least 6 feet off the ground and level for optimum wireless transmission.

The rain sensor should be accessible to allow for periodic cleaning of debris or insects. THERMOHYGRO SENSOR The thermohygro sensor is "weather resistant", but not "water proof". To ensure an extended life for the sensor, mount it in a semicovered place out of the elements at a minimum height of 6 feet. An ideal location for the thermohygro sensor is under the eaves on the North side of the house to avoid the effects of sunlight. Mount the sensor 18" down from the eaves to ensure optimum performance.

This will assure the temperature of the air coming out of the attic will not affect data collected by the sensor. To wall mount the thermohygro sensor, fix the wall holder onto the desired wall using the included screws, plug the sensor firmly into the wall holder and replace the rain cover if it is not already in place.

NOTE: After mounting the units, if the weather data is not received, press and hold the UP ARROW key for 2 seconds to synchronize the wireless display to the sensors. P a g e \ 9 DISPLAY AND HEAVY WEATHER PC SOFTWARE Position the display station to receive data from the thermohygro sensor and send data to the USBTRX10, which plugs into the computer and downloads information to the Heavy Weather Pro PC software. Read the Release Notes to verify the correct software version and download the free Heavy Weather Pro PC software at: <http://www.lacrossetechnology.com/support/software.php> The Software User's Guide is found in the ?\Help menu item in the software after installation. FUNCTION KEYS: SET KEY Press and hold for 3 seconds to enter the SET mode, where the following can be changed: LCD contrast, Manual time setting, 12/24 hour time display, Date setting, °F/°C temperature unit, Wind speed unit, Rainfall unit, Pressure unit, Relative pressure reference setting, Weather tendency threshold setting, Storm warning threshold setting, Storm Alarm On/ Off setting, Wind direction display type, and Factory reset Press to toggle between the display of Mode 1 or Mode 2: o Mode 1: "Wind speed + outdoor temp + 24 hr.



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pressure history graph" o Mode 2: "Gust + Dew Point temp + 72 hr.

pressure history graph " In the weather alarm setting mode, press to switch the weather alarm On / Off In the weather alarm setting mode, press and hold to adjust the weather alarm value Stop the weather alarm when ringing UP ARROW KEY Press to toggle between the display of seconds or date in the time display Press to increase the level of different settings in SET mode Press and hold to relearn the thermohygro sensor synchronization Press to reset the MIN/MAX record when in MIN/MAX display mode Stop the weather alarm when ringing DOWN ARROW KEY Press to switch the rainfall display mode:

Total, 1h, 24h, week, month Press to decrease the level of different settings in SET mode Synchronize the display with the PC (see Heavy Weather Pro Software User's Guide) Stop the weather alarm when ringing ALARM KEY Press to enter the time alarm and weather alarm setting mode Confirm particular alarm setting Press to exit the manual setting mode P a g e \ 10 Stop the alarm when the time alarm or weather alarm rings Press to exit max/ min record display mode Stop the weather alarm when ringing MIN/MAX KEY Press to display minimum and maximum records of various weather data Stop the weather alarm when ringing MODE 1 DISPLAY: Press the SET key to toggle between Mode 1 and Mode 2 display: Pressure history graph displays 24 hour history

Outdoor temperature displayed in the outdoor section Wind speed displayed in the wind section MODE 2 DISPLAY: Press the SET key to toggle between Mode 1 and Mode 2 display: Pressure history graph displays 72 hour history Dew point displayed in the outdoor section Wind gust displayed in the wind section DATE OR SECONDS DISPLAY MODE Press the UP ARROW key to toggle between display of the date or seconds LCD SCREEN When the signal from an outdoor transmitter is successfully received by the Weather Station, the corresponding icon will be switched on. (If not successful, the icon will not be shown on the LCD). The user can see whether the last reception was successful (icon is on) or not (icon is off). Blinking of the icon shows that a reception is in process. Wind Speed and Direction Pressure History Graph Indoor Humidity and Temperature Barometric Pressure Outdoor Humidity and Temperature Forecast Icon and Weather Tendency Arrows Rainfall Amount Time and Date Function Buttons P a g e \ 11 MANUAL SETTINGS: Press and hold the SET key for 3 seconds to enter the SET mode. The display will automatically return to Mode 1 display in 30 seconds if a key is not pressed. While in SET mode, each press of the SET key will advance to the next SET mode item: 1. LCD contrast setting 2. Manual time setting 3. 12/24 hour time display 4.

Date setting 5. °F/°C temperature unit setting 6. Wind speed unit 7. Rainfall unit setting 8. Air pressure unit setting 9.

Relative pressure reference value setting 10. Weather tendency threshold value 11. Storm warning threshold value 12. Alarm On/ Off setting 13. Wind direction display type 14.

Factory Reset LCD CONTRAST SETTING The LCD contrast can be set within 8 levels, from "Lcd 1" to "Lcd 8" (default setting is "Lcd 5"): 1. Press and hold the SET key for 3 seconds; the contrast level digit will start flashing. 2. Press the UP ARROW key or DOWN ARROW key to adjust the level of contrast. 3. Press the SET key to confirm and to enter the MANUAL TIME SETTING. MANUAL TIME SETTING: The time will be updated automatically with the time from the computer when the display is synchronized with the USB transceiver and connected to the Heavy Weather Pro software. The time can be set manually by following the steps below. 1. The hour digit will flash.

2. Press the UP ARROW key or DOWN ARROW key to set the hour. 3. Press the SET key to switch to the minutes. The minute digit will flash. 4. Press the UP ARROW key or DOWN ARROW key to set the minute. 5. Press the SET key to confirm and to enter the 12/24HOUR TIME DISPLAY SETTING. P a g e \ 12 12/24 HOUR TIME DISPLAY SETTING: The time can be set as 12hour or 24hour format.

To change the time display: 1. The "12h" or "24h" digits will flash. 2. Press the UP ARROW key or DOWN ARROW key to toggle the value. 3.

Press the SET key to confirm and to enter the DATE SETTING. DATE SETTING: The default date is 1. 1. of the year 2009. The date will be updated automatically with the date from the computer when the display is synchronized with the USB transceiver and connected to the Heavy Weather Pro software. The date can also be set manually by following the steps below. 1. The year digit will flash. 2. Press the UP ARROW key or DOWN ARROW key to set the year. The range runs from "00" (2000) to "99" (2099). 3. Press the SET key to confirm the year and enter the month setting. The month digit will flash. 4.

Press the UP ARROW key or DOWN ARROW key to set the month. 5. Press the SET key to confirm the month and enter the date setting mode. The date digit will flash. 6. Press the UP ARROW key or DOWN ARROW key to set the date. 7. Press the SET key to confirm and to enter the °F/°C TEMPERATURE UNIT SETTING. °F/°C TEMPERATURE UNIT SETTING The temperature can be displayed in °F or °C. (default °F) 1.

The temperature unit will flash. 2. Press the UP ARROW key or DOWN ARROW key to toggle between "°F" or "°C". 3. Press the SET key to confirm and to enter the WIND SPEED UNIT SETTING.

WIND SPEED UNIT SETTING The wind speed unit can be set as mph (miles per hour), km/h (kilometers per hour), bft (Beaufort), knots, or m/s (meters per second). The default unit is mph. 1. Press the UP ARROW key or DOWN ARROW key to toggle between the unit "mph", "km/h", "bft", "knots" or "m/s" 2.

Press the SET key to confirm and to enter the RAINFALL UNIT SETTING.

RAINFALL UNIT SETTING The rainfall unit can be set as inch or mm. The default unit is inch. P a g e \ 13 1. Press the UP ARROW key or DOWN ARROW key to toggle between the unit "inch" or "mm" 2. Press the SET key to confirm and to enter the RELATIVE AIR PRESSURE UNIT SETTING RELATIVE AIR PRESSURE UNIT SETTING The relative air pressure can be set as inHg (inches of mercury) or hPa (hectopascal). The default unit is inHg. 1. Press the UP ARROW key or DOWN ARROW key to toggle between the unit "inHg" or "hPa" 2. Press the SET key to confirm and to enter the RELATIVE PRESSURE REFERENCE VALUE SETTING. RELATIVE PRESSURE REFERENCE VALUE SETTING Note: For an exact measurement, it is necessary to adjust the barometer to the local relative air pressure (related to elevation above sea level).



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Ask for the current air pressure of the home area (local weather service, the world wide web, optician, calibrated instruments in public buildings, airport). The default reference pressure value is 29.91 inHg. The relative air pressure can be manually set to another value within the range of 27.17 to 31.90 inHg (920 to 1080 hPa) for a better reference. 1. The current relative pressure value will flash. 2. Press the UP ARROW key or DOWN ARROW key to increase or decrease the value.

Continually holding the key will allow the value to increase faster. 3. Press the SET key to confirm and enter the WEATHER TENDENCY SENSITIVITY SETTING. WEATHER TENDENCY SENSITIVITY SETTING The sensitivity of the weather forecast icons to changes in air pressure can be set manually. Smaller values result in a more sensitive forecast.

The switching sensitivity value can be set to .06, .09, or .12 inHg (2, 3 or 4 hPa). Select lower values (.06) for high humidity areas like the coastline. Select high numbers (.12) for dry areas like the desert. The default value is 0.09 inHg. 1. The sensitivity value will flash. 2. Press the UP ARROW key or DOWN ARROW key to select the value. 3.

Press the SET key to confirm and to enter the STORM WARNING SENSITIVITY SETTING. P a g e \ 14 STORM WARNING THRESHOLD VALUE SETTING A storm warning is displayed by flashing of the down weather tendency arrow when the air pressure decreases a specified amount over six hours. The sensitivity value for the storm warning display can be set between .09 inHg to .27 inHg (3hPa to 9hPa). The default value is 0.15 inHg. 1. The sensitivity value will flash. 2.

Press the UP ARROW key or DOWN ARROW key to select the value. 3. Press the SET key to confirm and to enter the STORM ALARM ON/OFF SETTING. STORM ALARM ON/ OFF SETTING The storm warning display (flashing downward weather tendency arrow) can be accompanied by a ring of the alarm. Switch the acoustic storm warning alarm On (AON) or Off (AOFF) (Default OFF).

1. The digit "AOFF" will flash. 2. Press the UP ARROW key or DOWN ARROW key to switch the alarm On or Off. ("AOFF" = Off; "AON" = On) 3. Press the SET key to confirm and to enter the WIND DIRECTION DISPLAY TYPE SETTING. WIND DIRECTION DISPLAY TYPE SETTING The wind direction can be displayed using either compass directions or degree measurements. N is equivalent to 0° on the compass. The default setting is compass directions. 1. The wind direction will flash. 2. Press the UP ARROW key or DOWN ARROW key to toggle from compass directions to degree measurements. 3. The next step in the SET mode is the factory reset, so unless you wish to reset the display to factory defaults, simply wait until the SET mode times out and returns to the Mode 1 display.

4. If you wish to perform a FACTORY RESET, press the SET key to confirm and to enter the FACTORY RESET PROCEDURE. SEE WARNINGS in the FACTORY RESET section. FACTORY RESET PROCEDURE WARNING: Performing a factory reset will erase all MIN/MAX values and weather data stored in the display's internal memory and return the weather units settings back to the factory defaults. If you have not yet uploaded the data to the Heavy Weather Pro software, the data will be lost. P a g e \ 15 If you do not wish to reset the display to factory defaults, either: Press the MIN/MAX key or the ALARM key to exit SET mode, or Simply wait 30 seconds until the SET mode times out and returns to the Mode 1 display. To reset the display to the factory defaults, follow the procedure below. WARNING: A factory reset will erase the connection between the display and the thermohygro sensor and require the all sensor connections to be reestablished. 1. "rES oFF" will flash.

2. Use the UP ARROW key or DOWN ARROW key to select "rES on". 3. Press the SET key to confirm and a countdown timer will begin counting down from "127" When the timer displays "dOnE", you must remove the batteries from the display for 10 minutes. While the batteries are out of the display, also remove the batteries from the thermohygro sensor and rain sensor.

4. After waiting for 10 minutes, insert the batteries into the thermohygro sensor, and rain sensor making sure to align the "+" symbol on the batteries with the markings on the battery cover and inside the battery compartment. 5. Within 2 minutes of inserting the batteries into the sensors, insert the batteries into the display, making sure to align the "+" symbol on the batteries with the markings inside the battery compartment. 6.

Wait 5 minutes for the outdoor weather data to display. If any of the outdoor data displays "" after waiting for 5 minutes, follow the "Setting Up" Procedure near the beginning of this manual or in the Quick Set Up Manual included with the product. TO EXIT THE MANUAL SETTING MODE To exit the manual setting at any time, either: Press the MIN/MAX key or the ALARM key to exit SET mode, or Simply wait 30 seconds until the SET mode times out and returns to the Mode 1 display. WEATHER ALARM OPERATIONS The Weather alarms can be set when certain weather conditions are met according to the requirements. For example, you can set the thresholds for the outdoor temperature to +104°F (high) and 14°F (low), while enabling the high alarm and disabling the low alarm (i.e. temperatures <14°F won't trigger alarm, but temperatures >+104°F will). If the value meets the condition for high alarm or low alarm, the alarm will ring for 2 minutes and the value will blink, along with the corresponding icon ("HI AL"/ "LO AL"). Press any key to stop a ringing alarm. The high and low alarms can be switched On/Off independently, according to the needs.

P a g e \ 16 If at any time during the alarm setting process you would like to exit alarm setting mode, press the MIN/MAX key or wait for about 30 seconds and the display will return to normal display mode automatically. Press the ALARM key to enter ALARM mode. Subsequent presses of the ALARM key will advance to the next weather alarm section. Note: Weather alarms can also be set from the Heavy Weather Pro software. Consult the Heavy Weather Pro Software User's Guide for instructions. THE FOLLOWING WEATHER ALARMS CAN BE ADJUSTED IN ALARM SETTING MODE: High and Low pressure alarms High and Low indoor temperature alarms High and Low indoor humidity alarms High and Low outdoor temperature alarms High and Low outdoor humidity alarms High wind gust alarm Wind direction alarm Rainfall amount in 24 hour period alarm DEFAULT WEATHER ALARM VALUES: Low Pressure 28.35 inHg Wind gust Wind Direction High 62.0mph North High 30.71 inHg Low 32F Temperature (In or Out) Rainfall in 24 hours High 1.96 in High 104F Low 45% Relative Humidity (In or Out) PRESSURE ALARMS High 70% 1.



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In the normal display mode, press the ALARM key once. The highpressure alarm display will be shown. 2. Press and hold the SET key for about 2 seconds. The pressure digit will flash.

3. Press the UP ARROW key or DOWN ARROW key to set the highpressure alarm value. Hold the arrow key in to change the value faster. P a g e | 17 4. Press the ALARM key to confirm the setting.

The digit will stop flashing. 5. Press the SET key to switch the alarm on or off. The ((())) icon indicates the alarm is switched on. 6. Press the ALARM key once. The Low Pressure alarm display will be shown. 7. Press and hold the SET key for about 2 seconds. The pressure digit will flash.

8. Press the UP ARROW key or DOWN ARROW key to set the lowpressure alarm value. Hold the arrow key in to change the value faster. 9. Press the ALARM key to confirm the setting. The digit will stop flashing. 10. Press the SET key to switch the alarm on or off. The ((())) icon indicates the alarm is switched on. 11.

Press the ALARM key to move to the indoor temperature alarm settings. INDOOR TEMPERATURE ALARMS 1. The high indoor temperature alarm display will be shown. 2. Press and hold the SET key for about 2 seconds. The temperature digit will flash. 3. Press the UP ARROW key or DOWN ARROW key to set the high indoor temperature alarm value. Hold the key in to change the value faster. 4.

Press the ALARM key to confirm the setting. The digit will stop flashing. 5. Press the SET key to switch the alarm on or off. The ((())) icon indicates that the alarm is switched on. 6. Press the ALARM key once. The low outdoor temperature alarm display will be shown. 7. Press and hold the SET key for about 2 seconds.

The temperature digit will flash. 8. Press the UP ARROW key or DOWN ARROW key to set the low indoor temp alarm value. Hold the arrow key in to change the value faster. 9. Press the ALARM key to confirm the setting. The digit will flash. 10. Press the SET key to switch the alarm on or off. The ((())) icon indicates the alarm is switched on.

11. Press the ALARM key to move to the indoor humidity alarm settings. INDOOR HUMIDITY ALARMS 1. The high indoor humidity alarm display will be shown. 2. Press and hold the SET key for about 2 seconds. The humidity digit will flash. 3. Press the UP ARROW key or DOWN ARROW key to set the high indoor humidity alarm value. 4.

Press the ALARM key to confirm the setting. The digit will stop flashing. 5. Press the SET key to switch the alarm on or off. The ((())) icon indicates the alarm is switched on. 6. Press the ALARM key once. The low indoor humidity alarm display will be shown. 7. Press and hold the SET key for about 2 seconds.

The humidity digit will flash. 8. Press the UP ARROW key or DOWN ARROW key to set the low indoor humidity alarm value. 9. Press the ALARM key to confirm the setting. The digit will stop flashing. P a g e | 18 10. Press the SET key to switch the alarm on or off. The ((())) icon indicates the alarm is switched on. 11.

@@ OUTDOOR TEMPERATURE ALARMS 1. The high outdoor temperature alarm display will be shown. 2. Press and hold the SET key for about 2 seconds. The temperature digit will flash.

3. @@ Hold the key in to change the value faster. 4. Press the ALARM key to confirm the setting. The digit will stop flashing.

5. Press the SET key to switch the alarm on or off. The ((())) icon indicates that the alarm is switched on. 6. Press the ALARM key once. The low outdoor temperature alarm display will be shown. 7. Press and hold the SET key for about 2 seconds. The temperature digit will flash. 8.

@@ Hold the arrow key in to change the value faster. 9. Press the ALARM key to confirm the setting. The digit will flash. 10. Press the SET key to switch the alarm on or off. The ((())) icon indicates the alarm is switched on. 11. Press the ALARM key to move to the outdoor humidity alarm settings. OUTDOOR HUMIDITY ALARMS 1.

The high outdoor humidity alarm display will be shown. 2. Press and hold the SET key for about 2 seconds. The humidity digit will flash. 3.

@@ 4. Press the ALARM key to confirm the setting. The digit will stop flashing. 5. Press the SET key to switch the alarm on or off.

The ((())) icon indicates the alarm is switched on. 6. Press the ALARM key once. The low outdoor humidity alarm display will be shown. 7. Press and hold the SET key for about 2 seconds. The humidity digit will flash. 8. @@ 9. Press the ALARM key to confirm the setting.

The digit will stop flashing. 10. Press the SET key to switch the alarm on or off. The ((())) icon indicates the alarm is switched on. 11. @@ WIND GUST ALARM 1. The wind gust alarm display will be shown. 2. Press and hold the SET key for about 2 seconds. The wind gust digit will flash.

P a g e | 19 3. @@ 4. Press the ALARM key to confirm the setting. The digit will stop flashing. 5.

Press the SET key to switch on or off the alarm. The ((())) icon indicates the alarm is switched on. 6. Press the ALARM key to move to the wind direction alarm settings. @@ 1.

The wind direction alarm display will be shown. 2. Press and hold the SET key for about 2 seconds. @@ 3. @@ 4. Press the SET key to set a wind direction alarm value. @@ 5. @@ The arrow icon inside the compass circle will disappear. 6. @@ 7.

Press the SET key to confirm the next wind direction value. @@ You can set as many wind direction alarms as you desire. 8. Press the ALARM key to confirm the setting. The digit will stop flashing. 9. Press the SET key to switch on or off the alarm. The ((())) icon indicates the alarm is switched on. 10. Press the ALARM key to move to the 24hour rainfall alarm settings.

24 HOUR RAINFALL ALARM 1. The 24hour rainfall alarm display will be shown. 2. Press and hold the SET key for about 2 seconds. The 24hour rainfall digit will flash.

3. @@ 4. Press the ALARM key to confirm the setting. The digit will stop flashing. 5.

Press the SET key to switch on or off the alarm. The ((())) icon indicates the alarm is switched on. 6. Press the ALARM key to exit the alarm setting mode.

@@@ @@@ @@@ @@@ @@@ WEATHER FORECAST AND WEATHER TENDENCY WEATHER FORECASTING ICONS: Sunny Cloudy with sunny intervals Rainy For every sudden or significant change in the air pressure, the weather icons will update accordingly to represent the change in weather. Every time a new average pressure value has been obtained (once per minute), this value is compared with an internal reference value. If the difference between these values is bigger than the selected weather tendency sensitivity, the weathericon changes, either for worse or for better. In this case, the current pressure value becomes the new weather tendency reference. If the icons do not change, either the air pressure has not changed or the change has been too small for the Weather Center to register. You may adjust the "sensitivity" of the pressure change check in the setting mode see WEATHER TENDENCY SENSITIVITY VALUE SETTING above.



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The displayed icon forecasts the weather in terms of getting better or worse and not necessarily sunny or rainy as each icon indicates. For example, if the current weather is cloudy and the rainy icon is displayed, it does not mean that the product is faulty because it is not raining. It simply means that the air pressure has dropped and the weather is expected to get worse but not necessarily rainy. Note: After set up, readings for weather forecasts should be disregarded for the next 4860 hours. This will allow sufficient time for the Weather station to collect air pressure data at a constant altitude and therefore result in a more accurate forecast. Common to weather forecasting, absolute accuracy cannot be guaranteed. The weather forecasting feature is estimated to have an accuracy level of about 75% due to the varying areas the Weather Center has been designed for use. 75% accuracy is comparable to the best meteorological forecasting rate. In areas that experience sudden changes in weather (for example from sunny to rain), the Weather Center will be more accurate compared to use in areas where the weather is stable most of the time (for example mostly sunny).

If the Weather Center is moved to another location significantly higher or lower than its initial standing point (for example from the ground floor to the upper floors of a house), discard the weather forecast for the next 4860 hours, as the Weather Center may mistake the new location as being a possible change in airpressure when really it is due to the slight change of altitude. WEATHER TENDENCY INDICATOR Working together with the weather icons is the weather tendency indicators (arrows located on the left and right sides of the weather icons). When the indicator points upwards, it means that the airpressure is increasing and the weather is expected to improve, but when the indicator points downwards, the airpressure is dropping and the weather is expected to become worse. Taking this into account, one can see how the weather has changed and is expected to change. For example, if the indicator is pointing downwards together with cloud and sun icons, then the last noticeable change in the weather was when it was sunny (the sun icon only).

Therefore, the next change in the weather will be cloud with rain icons since the indicator is pointing downwards. Note: Once the weather tendency indicator has registered a change in air pressure, either the upward or downward tendency arrow will be displayed until the tendency changes again. Page \ 22 AIR PRESSURE HISTORY GRAPH The LCD shows the relative air pressure value and the air pressure history on a bar graph. Press the SET key to toggle between Mode1 and Mode2 of the display. Mode 1: The bar graph displays the air pressure history of the past 24 hours in seven steps.

The horizontal axis represents the last 24 hours of air pressure recording (24, 18, 12, 8, 6, 3 and 0 hour). Mode 2: The bar graph displays the air pressure history of the past 72 hours in seven steps. The horizontal axis represents the last 72 hours of air pressure recording (72, 48, 36, 24, 12, 6 and 0 hour). The vertical bars are plotted at each of the seven steps and give the trend over the recorded period. The 0 hour vertical bar will always display at the midline height to indicate the current air pressure. The varying height of bars in other columns on the graph indicate a relative change in air pressure up or down from the previous measurement. New pressure measurements are compared to previously recorded pressure measurements. The pressure change is expressed by the difference between the current ("0h") and the past readings in divisions of ± 0.06 inHg or ± 2 hPa. If the bars are rising from left to right, this indicates that the weather is getting better due to an increase in air pressure.

If the bars are falling from left to right, this indicates that the weather is expected to get worse due to a drop in air pressure. At every full hour, the current air pressure is used as a basis for the display of a new graph bar. The existing graph is then moved one column to the left. Note: For accurate barometric pressure trend, the Weather Center should operate at the same altitude. Should the unit be moved, for instance from the ground to the second floor of the house, the readings for the next 4860 hours shall be discarded. Note: The bar graph will scroll right to left regularly to prevent LCD burnout. WIND DIRECTION AND WIND SPEED MEASUREMENT A pointer on the outer circle of the compass indicates the current wind direction. The last 6 wind directions are displayed with pointers on the inner circle. The wind direction (abbreviation or degrees) is displayed in center of compass. Press the SET key to toggle between Mode1 and Mode 2 of the display.

Mode 1 displays the following wind data: Wind direction Wind chill in F or C Wind speed in mph, km/h, bft, knots or m/s Page \ 23 Mode 2 displays the following wind data: Wind direction Wind chill in F or C Wind gust in mph, km/h, bft, knots or m/s RAINFALL MEASUREMENT The 1hour, 24hour, week, month or total rainfall measurement is displayed on the LCD, in the unit of inch or mm. Press the DOWN ARROW to select the rainfall display from the following modes: 1. Total rainfall reset manually (see "RESET THE MIN/MAX WEATHER DATA") 2. Last 1 hour rainfall updates every four minutes, totals last 15 measurements 3. Last 24 hours rainfall from current time.

4. Last week rainfall reset every Monday night at 12:00am (midnight) 5. Last month rainfall reset every 1st of month at 12:00am (midnight) VIEWING THE MIN/MAX WEATHER DATA The weather station will record the maximum and minimum value of the various weather data with time and date of recording automatically. The following stored maximum and minimum weather data can be viewed by pressing the MIN/MAX key in normal display mode. 1. 2. 3. 4. 5. 6. 7. MIN/MAX indoor temperature with the date and time of recording MIN/MAX indoor humidity with the date and time of recording MIN/MAX outdoor temperature with the date and time of recording MIN/MAX dew point temperature with the date and time of recording MIN/MAX outdoor humidity with the date and time of recording MAX wind gust with the date and time of recording Total rainfall with the date the rainfall total was last reset. If the rainfall total has not yet been reset, ". . ." will be displayed for the date.

RESET THE MIN/MAX WEATHER DATA 1. Press MIN/MAX key to show the desired weather data. 2. Press UP ARROW key. The stored value will be reset to the current value and current time. To reset the MIN/MAX weather data, you need to reset each of the values independently. TOTAL RAINFALL AMOUNT The total rainfall measurement is displayed in the unit of mm or inch.



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It shows the total rainfall accumulated since last reset of the total rainfall amount. In either Mode 1 or Mode 2 display, press the MIN/MAX key until the display shows the total rainfall value. P a g e \ 24 To reset the rainfall reading, press the UP ARROW key.

The total rainfall amount will be reset to 0, and the time is updated to current time. Note: Until the first rainfall total reset is performed, the time and date of the total rainfall are displayed as " ..". After the rainfall total is reset, the rainfall total display will indicate the date and time of the last rainfall total reset.

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. Precautions shall be taken when handling the batteries. Injuries, burns, or property damage may be resulted if the batteries are in contact with conducting materials, heat, corrosive materials or explosives. The batteries shall be taken out from the unit before the product is to be stored for a long period of time. Immediately remove all low powered batteries to avoid leakage and damage.

Replace only with new batteries of the recommended type. 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. Special care shall be taken when handling a damaged LCD display. The liquid crystals can be harmful to user's health. Do not make any repair attempts to the unit. Return them to their original point of purchase for repair by a qualified engineer. Opening and tampering with the unit may invalidate their guarantee. Never touch the exposed electronic circuit of the device as there is a danger of electric shock should it become exposed.

Do not expose the display to extreme and sudden temperature changes, this may lead to rapid changes in forecasts and readings and thereby reduce their accuracy. SPECIFICATIONS: INDOOR TEMPERATURE 40°F to +139.8°F with 0.2°F resolution 9.9°C to +59.9°C with 0.1°C resolution ("OF.L" displayed if outside this range) INDOOR HUMIDITY 1% to 99% with 1% resolution (" " displayed if < 1%, "99" displayed if 99%) P a g e \ 25 OUTDOOR

TEMPERATURE / DEW POINT 40°F to +139.8°F with 0.2°F resolution 9.9°C to +59.9°C with 0.1°C resolution ("OF.L" displayed if outside this range) OUTDOOR HUMIDITY 1% to 99% with 1% resolution (" " displayed if < 1%, "99" displayed if 99%) WIND SPEED/ GUST 0 to 111.8 mph with resolution of 0.22 mph 0 to 180 km/h with resolution of 0.36 km/h 0 to 12 hft 0 to 97.1 knots with resolution of 0.19 knots 0 to 50 m/s with resolution of 0.1 m/s (displays "OF.L" when > 111.62 mph; 49.9 m/s) WIND CHILL 40°F to +139.8°F with 0.2°F resolution 40°C to +59.9°C with 0.1°C resolution (displays "OF.L" if outside this) RAINFALL 0" to 393.7" with 0.01 inch resolution 0 to 9999 mm with 0.

1 mm resolution (displays "OF.L" when > 393.7") P a g e \ 26 OUTDOOR DATA RECEPTION Temperature and humidity data every 13 seconds Wind data every 17 seconds Rain data every 19 seconds AIR PRESSURE 8.86 inHg to 32.46 inHg 300 hPa to 1099 hPa Relative pressure preset range: 27.17 to 31.90 inHg (919 to 1080 hPa) measured every 15 seconds TRANSMISSION RANGE ThermoHygro: 200 feet in open space Rain: 200 feet in open space Wind: 200 feet in open space POWER CONSUMPTION WEATHER CENTER 3 x C size batteries (IEC LR14, 1.5V) THERMOHYGRO TRANSMITTER 2 x C size batteries (IEC LR14, 1.5V) RAIN SENSOR 2 x AA size batteries (IEC LR6, 1.5V) WIND SENSOR Solar powered BATTERY LIFE Approximately 24 months (Alkaline batteries recommended) P a g e \ 27 LIABILITY DISCLAIMER The electrical and electronic wastes contain hazardous substances.

Disposal of electronic waste in wild country and/or in unauthorized grounds strongly damages the environment. Please contact the local or/and regional authorities to retrieve the addresses of legal dumping grounds with selective collection. All electronic instruments must from now on be recycled. User shall take an active part in the reuse, recycling and recovery of the electrical and electronic waste. The unrestricted disposal of electronic waste may do harm on public health and the quality of environment.

As stated on the gift box and labeled on the product, reading the "User manual" is highly recommended for the benefit of the user. This product should not be thrown in general rubbish collection points. The manufacturer and supplier cannot accept any responsibility for any incorrect readings and any consequences that occur should an inaccurate reading take place. This product is designed for use in the home only as indication of the temperature. This product is not to be used for medical purposes or for public information.

The specifications of this product may change without prior notice. This product is not a toy. Keep out of the reach of children. No part of this manual may be reproduced without written authorization of the manufacturer. P a g e \ 28 FCC STATEMENT Statement according to FCC part 15.19: 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. Statement according to FCC part 15.21: Modifications not expressly approved by this company could void the user's authority to operate the equipment.

Statement according to FCC part 15.105: NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. @@@@ Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. WARRANTY INFORMATION La

Crosse Technology, Ltd provides a 1year 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.



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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 the 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. The 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 the 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 product's 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 setup 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 the 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 2817 Losey Blvd. S. La Crosse, WI 54601 Customer Support: www.lacrossetechnology.com/support

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