

WS-7095U
Wireless 433 MHz
24" Wall Hanging Wireless Weather Center

Instruction Manual

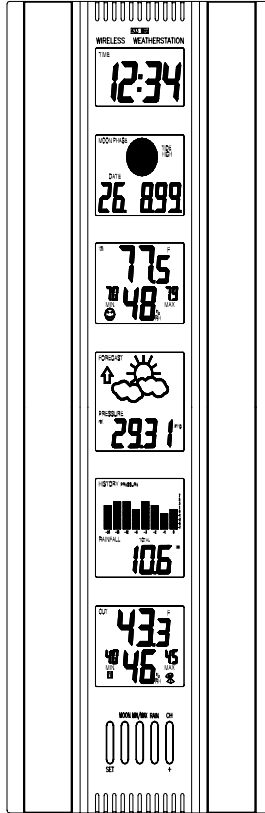


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INVENTORY OF CONTENTS

1. WS-7095U—24" Wall Hanging Wireless Weather Center (Figure 1).
2. TX4U—Remote Thermo-Hygro

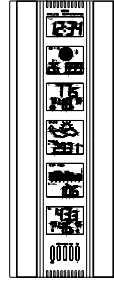
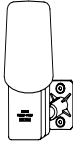


Figure 1.

Figure 2



(temperature-humidity) Sensor: includes a mounting bracket/receptor, rain cover, two mounting screws, and adhesive tape (Figure 2).

3. TX5U—Rainfall Sensor: includes a base, rainfall collector, and two mounting screws (Figure 3).
4. Instruction manual and warranty card.

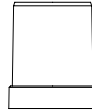


Figure 3

ADDITIONAL EQUIPMENT (not included)

1. Three fresh 1.5V C batteries.
2. Four fresh 1.5V AA batteries.
3. Philips screwdriver.
4. Flathead screwdriver.
5. Four wall-mounting screws.

QUICK SET-UP GUIDE

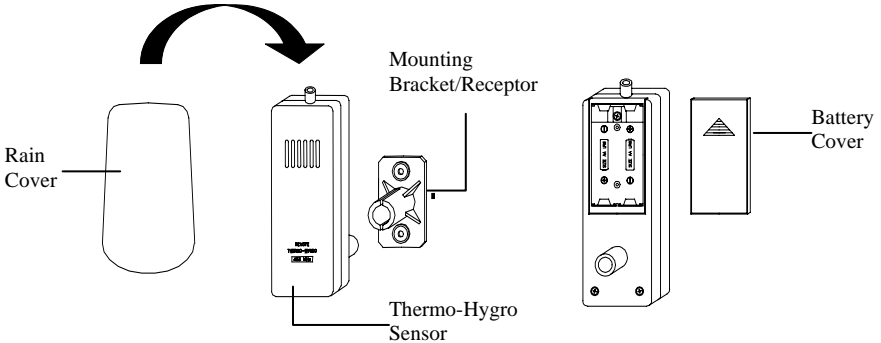
1. Insert two AA batteries into the Remote Thermo-Hygro Sensor.
2. Insert two AA batteries into the Rainfall Sensor.
3. Insert three C batteries into the Weather Center.
4. Wait 12 minutes, or until the Weather Center has received signals from the Remote Thermo-Hygro, and Rainfall Sensors.
5. Set time and date.
6. Mount the units, ensuring they are sending and receiving signals.

DETAILED SET-UP GUIDE

I. BATTERY INSTALLATION

Batteries will fit tightly. To avoid start-up problems, make sure that the batteries do not spring free.

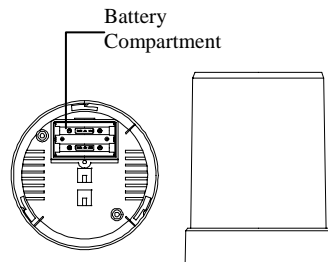
A. REMOTE THERMO-HYGRO SENSOR



1. Pull the cylindrical rain cover off the sensor.
2. Remove the battery cover (located on the backside of the sensor, above the mounting post and bracket). Press the arrow and slide the battery cover off.
3. Observing the correct polarity install 2 AA batteries.
4. Replace battery cover, and place rain cover snugly onto the sensor.

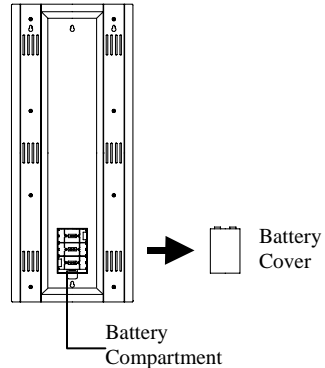
B. RAINFALL SENSOR

1. Remove the flat-head screw and battery cover, located on the underside of the base.
2. Observe the correct polarity, and install two AA batteries.
3. Make sure the rubber weather seal is in place and replace the battery cover and screw.



C. WEATHER CENTER

1. Remove the battery cover. To do this, place a solid object in the space provided at the lower-central position of the battery cover (the cover has white writing on it) then push up and pull out on the battery cover.
2. Observe the correct polarity, and install three C batteries.
3. Replace the battery cover.



THE LCD SCREENS

Immediately after the batteries have been installed, the LCD (Liquid Crystal Display) Screens will completely light up for a brief moment. There are 6 LCD Screens, each displaying different information.

Note: After the LCD Screens briefly light up, “267” will appear in the LCD 1, then the LCD’s will display the default settings. A low-battery warning-icon appears in LCD 1 beside the “TIME” icon (this should not be on). There is also a satellite icon that appears in LCD 6, under the “MAX” icon—this icon informs the user that the Weather Center is receiving signals from the sensors. Within 12 minutes the Outdoor temperature and humidity should be displayed—if not, remove batteries from all units and repeat battery installation.

Following is a general display description of each LCD. Details concerning the LCD Screens will be explained during the complete Programming sections and the Features & Operations sections.

LCD 1—shows the time.

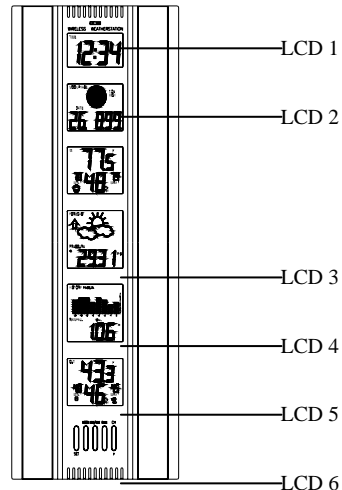
LCD 2—moon phases and dates.

LCD 3—indoor temperature/humidity.

LCD 4—forecast icons and air pressure.

LCD 5—rainfall/air pressure histories, and rain quantity.

LCD 6—outdoor temperature/humidity.



PROGRAM MODE

The Program Mode is laid out in a manner that allows you to program each function separately, or you can follow the instructions entirely to program the Weather Center. Complete programming is usually done for the initial set-up, and will require you to skip step 1 of each programming section (from section III to XII). The programming mode can be exited at any time by either pressing the *MIN/MAX* button, or waiting for the 20-second time-out to take effect.

***Important note: Due to a programming error, the WS-7095U will not properly recognize the dates March 1 or 2. When the date switches from February 28 (February 29 in leap years), the unit will reset all information to the default values. Any attempt to set this unit to March 1 or 2 will give the same result. To prevent this, set the unit to March 3 on February 28 or sooner. Once the actual date is March 3, you may then reset it. As of this printing, no software changes are scheduled, and we apologize for that. This product is very specialized, and volumes do not allow us to easily change the software. We appreciate your business, and strive to maintain our quality of products. We hope that you will find this unit has enough good features to help you overlook the missed programming. Feel free to call or e-mail us with any further questions.*

I. FUNCTION BUTTONS

There are 5 function buttons located on the front of the Weather Center, under the LCD Screens. The function buttons are labeled: *SET*, *MOON*, *MIN/MAX*, *RAIN*, and *CH/+*.

II. SETTING THE LCD CONTRAST

1. Hold down the *SET* button for 3 seconds, the default setting “LCD 7” will flash in LCD 2.
2. Press the *CH/+* button to advance through the LCD settings. There are 16 settings to select from—“LCD 0” is the lightest and “LCD 15” is the darkest.
3. Press the *SET* button to confirm, and to advance to select 12/24-hour time display.

III. 12/24 HOUR TIME DISPLAY SELECTION

1. Press the *SET* button twice to enter the 12/24-hour selection mode.
2. The default setting “12” will flash in LCD 1.
3. Use the *CH/+* to select either “12” or “24” hour time display.

4. Press the *SET* button to confirm, and to advance to the Time setting mode.

IV. TIME SETTING

Note: *The default time, after battery installation is “12:00.” The Weather Center will begin to keep track of time after this.*

1. Press the *SET* button three times to enter the Time setting mode.
2. The hour digit will flash in LCD 1.
3. Press the *CH/+* button to advance the hours.

Note: *When setting the hours notice that there is no “AM” icon to indicate that the time being set is in the AM. There is only a “PM” icon. Be sure to set the time accordingly.*

4. Press the *SET* button to confirm, and advance to set the minutes.
5. The minute digit will flash in LCD 1. Press the *CH/+* to advance the minutes (holding the *CH/+* down will advance the minutes in increments of five).
6. Press the *SET* button to confirm, and to advance to the Time Zone setting.

V. TIME ZONE SETTING

This is a feature available on the WS-7095U, it is designed for use in Germany. You may ignore this feature.

1. Press the *SET* button five times to enter this setting mode.
2. “Zo 0” will flash in LCD 1.
3. Press the *SET* button again to advance to set the date.

VI. DATE SETTING

1. Press the *SET* button six times to enter the Date Setting mode.
2. The default year “98” will flash in LCD 2.
3. Press the *CH/+* to change the year.
4. Press the *SET* button to confirm the year, and to advance to set the month. The default month digit “1” will flash in LCD 1.
5. Press the *CH/+* to change the month.
6. Press the *SET* button to confirm, and to advance to set the date. The default date digit “1” will flash in LCD 1.
7. Press the *CH/+* to change the date.
8. Press the *SET* button to confirm, and to advance set the Date Display.

VII. DATE DISPLAY SETTING

1. Press the *SET* button nine times to enter the Date Display setting mode.
2. The default “month/date/year” display will flash in LCD 2.
3. Press the *CH/+* button to toggle between the default setting and the “weekday/month/day” setting.
4. Press the *SET* button to confirm, and to advance to select °F or °C.

VIII. SELECTING °F OR °C AND INCHES OR MILLIMETERS

1. Press the *SET* button ten times to enter the °F/°C setting mode.
2. The default “F” will flash in LCD 1.
3. Press the *CH/+* button to toggle between “F” and “°C.”

Note: When °F is selected, the rainfall measurement will change to inches. When °C is selected, the rainfall measurement will change to millimeters. When the selection is made the effects are seen immediately in temperature and rainfall measurement readings found in other LCD screens.

4. Press the *SET* button to confirm, and to advance to set the Weather Forecast Sensitivity.

IX. WEATHER FORECAST SENSITIVITY SETTING

Note: A higher hPa (Hekto Pascal) setting decreases the forecasting sensitivity of the unit, this feature is available for persons living in areas where air pressure changes are significant. (not necessarily related to a change of weather). A lower hPa setting is available for areas with a more constant air pressure. This designates that it takes 2 hPa of pressure change to change the forecast icon. Note that 1 hPa change = 0.03 inHg (Inch Column of Mercury) change. 1 hPa= 1 mb (millibar). The hPa options that appear in LCD 4 are “2” hPa= 0.06 inHg, “3” hPa= 0.09 inHg, and “4” hPa= 0.12 inHg.

1. Press the *SET* button eleven times to reach the Weather Forecast Sensitivity setting mode.
2. The default sensitivity level of “3” will flash in LCD 4.
3. Press the *CH/+* button to select a weather forecast sensitivity level (2 through 4).
4. Press the *SET* button to confirm, and to advance to the Relative or Absolute display setting.

X. DISPLAYING RELATIVE hPa/inHg OR ABSOLUTE hPa/inHg

Note: Air pressure can be displayed in four different measures: Relative hPa/inHg and Absolute hPa/inHg. Absolute settings give a true and real-time air pressure reading (at user's location) that cannot be manually calibrated. Relative air pressure is measured in relation to sea level and is the standard meteorological form of measure. Relative air pressure settings must be manually programmed to suit the users needs. Relative air pressure can be found from local weather services. Absolute air pressure decreases by about 0.01 inHg for every 10 feet in altitude. In higher altitudes (above 6,500 feet), this effect is less noticeable. The WS-7095U will measure absolute pressure reliably up to 7,500 feet. There is no limit for relative air pressure since the user sets it.

1. Press the *SET* button twelve times to reach Relative or Absolute Display setting mode.
2. The default "rel 29.91 inHg" will flash in LCD 4. Press the *CH/+* button to toggle through "abs --.-- inHg", "rel 1012.55 hPa", "abs --.-- hPa".
3. Press the *SET* button to confirm, and to advance to the next setting mode. The next setting mode depends on which was chosen, Absolute or Relative. If Absolute is displayed, the next setting mode will be to set the Bar Graph Display. If Relative is displayed, the next setting mode will be to Manually set the Relative Air Pressure.

XI. MANUALLY SETTING THE RELATIVE AIR PRESSURE

1. Press the *SET* button thirteen times to enter the Manual Setting of the Relative Air Pressure mode.
2. The air pressure digits in LCD 4 will flash. Use the *CH/+* button to set the appropriate Relative Air Pressure (check local weather service).
3. Press the *SET* button to confirm, and to advance to select the Bar Graph Display.

XII. SELECTING BAR GRAPH DISPLAY

Note: LCD 5 can display the History Bar Graph in 3 different ways. 1) It can show the Rain History only, 2) it can show the Air Pressure History only, or 3) it can alternate between the Rain History and the Air Pressure History (the default setting).

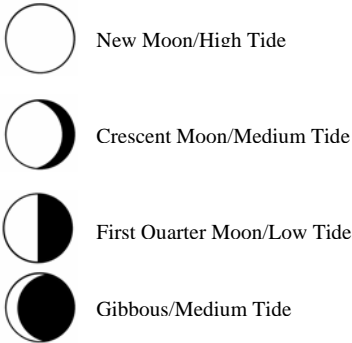
1. Press the *SET* button fourteen times to enter the Bar Graph Display Setting.
2. The bar graph in LCD 5 will flash, alternating between the “RAIN” history and the “PRESSURE” history.
3. Using the *CH/+* button select the Bar Graph Display to be shown in LCD 5.
4. Press the *SET* button to confirm, and to exit the program mode.

FEATURES & OPERATIONS

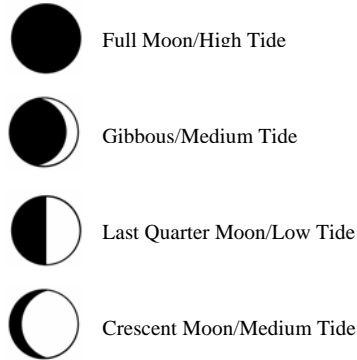
I. MOON PHASE

The Moon Phases, and their corresponding dates and tide levels, appear in LCD 2. While viewing LCD 2 in the normal display mode, the current moon phase, corresponding tide level, and current date are all displayed. There are 8 visible Moon Phases that will show in the LCD:

Waxing Moon Phases



Waning Moon Phases



The Weather Center is programmed with all moon phases, corresponding dates, and the tide levels from the year 1998 until 2020.

1. To enter the Moon Phase mode from the normal display mode, press the *MOON* button.
2. Now showing in LCD 2 is the current moon phase, corresponding tide level, and the date that this moon phase began (*keep in mind that if your current moon phase began on the current date, there will be no change in date*).

Note: *The date display (month/date/year or weekday/month/day) is determined by the date display setting that you entered in section VII of the Programming Mode.*

While still in the Moon Phase:

3. Press the *MOON* button a second time. Now appearing in LCD 2 is the current moon phase and the subsequent date at which the current moon phase will be entered into again. Repeating this will continue to show subsequent dates until the year 2020, then the information will wrap around and begin to display information starting from the year 1998.
4. Press the *CH/+* button. LCD 2 now shows the next moon phase and the date it begins. Continue to press the *CH/+* button to show

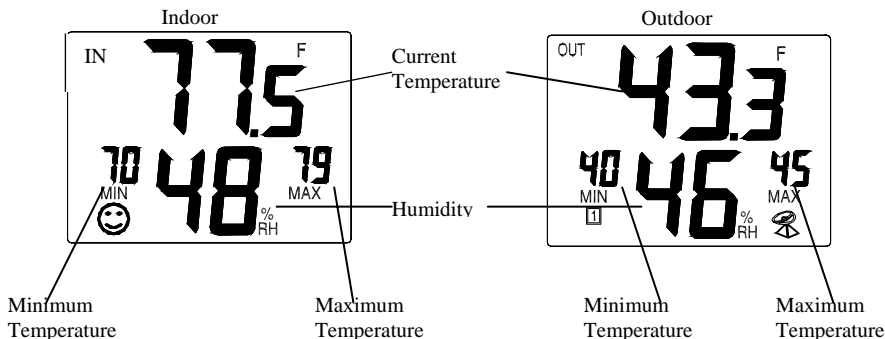
every moon phase and its beginning dates until the year 2020 (wrapping around to 1998).

Note: The Moon Phase features allow for the discovery of dates of specific moon phases. Hypothetically, if the date of the next full moon were desired (and the current moon phase was not a full moon), simply press the MOON button, press the CH/+ button repeatedly until you reach a full moon display in LCD 2—the date of the next full moon would be displayed. Press the CH/+ button repeatedly and the dates of all full moons until the year 2020 will sequentially appear.

II. MINIMUM & MAXIMUM TEMPERATURES

A. DISPLAYS AND FUNCTIONS

The Weather Center automatically stores the minimum and maximum temperatures, and the time and date of their occurrence. In either LCD 3 or LCD 6 (Indoor and Outdoor respectively) the minimum temperature appears on the left side of the screen and is marked by the “MIN” (minimum) icon, while the maximum temperature appears on the right side of the screen and is marked by the “MAX” (maximum)



icon. The “MIN” temperatures are rounded down, and the “MAX” temperatures are rounded up—no matter what the decimal values are. To view the times and dates these temperatures were recorded, follow the below procedures.

1. Press the MIN/MAX button. The Current Indoor temperature in LCD 3 shifts to a flashing display of the minimum recorded indoor temperature, the smaller “MIN” temperature also flashes. The recorded time simultaneously displays in LCD 1, and the date simultaneously displays in LCD 2.

Note: The time and date will automatically and simultaneously appear in their respective LCD's for all following steps in this section.

2. Press the *MIN/MAX* button a second time. The flashing minimum temperature in LCD 3 shifts to flash the recorded maximum temperature.
3. Press the *MIN/MAX* button a third time. In LCD 6 the Current Outdoor temperature shifts to a flashing display of the minimum recorded outdoor temperature.
4. Press the *MIN/MAX* button a fourth time. The flashing minimum temperature in LCD 6 shifts to flash the recorded maximum temperature.
5. Press the *MIN/MAX* a final time and the LCD's return to normal display mode.

B. RESETTING THE MINIMUM & MAXIMUM RECORDS

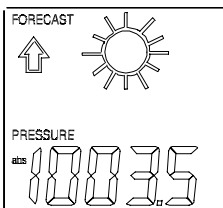
Hold down the *MIN/MAX* button for 3 seconds. This will reset all recorded minimum and maximum temperatures for both the Indoor and Outdoor records. The “MIN” and “MAX” displays will show the rounded figures for the current temperature.

III. WEATHER FORECAST & WEATHER ICONS

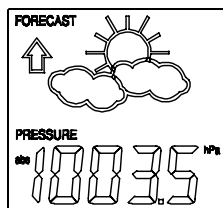
The weather forecasting feature is estimated to be 75% accurate, and is based solely upon the change of air pressure over time. The WS-7095U averages past air-pressure readings to provide an accurate forecast—creating a necessity to disregard all weather forecasting for 12-24 hours after the unit has been set-up, reset, or moved from one altitude to another (i.e. from one floor of a building to another floor). In areas where the weather is not affected by the change of air pressure, this feature will be less accurate.

A. WEATHER ICONS

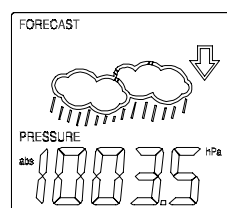
There are 3 possible weather icons that will be displayed at various times in LCD 4:



Sunny



Sun with Clouds



Clouds with Rain

Sunny—indicates that the weather is expected to improve (not that the weather will be sunny).

Sun with Clouds—indicates that the weather is expected to be fair (not that the weather will be sunny with clouds).

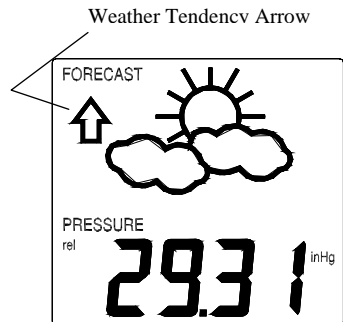
Clouds with Rain—indicates that the weather is expected to get worse (not that the weather will be rainy).

The weather icons change when the unit detects a change in air pressure. The icons change in order, from “sunny” to “sun with clouds” to “clouds with rain” or the reverse. It will not change from “sunny” directly to “clouds with rain”, although it is possible for the change to occur quickly. If the symbols do not change, the weather has not changed (or the change has been slow and gradual).

B. WEATHER TENDENCY ARROWS

LCD 4 also displays the weather tendency arrows. There is one that points up (on the left side of the LCD) and one that points down (on the right side of the LCD).

These arrows reflect current changes in the air pressure. An arrow pointing up indicates that the air pressure is increasing and the weather is expected to improve or remain good, and arrow pointing down indicates that the air pressure is decreasing and the weather is expected to become worse or remain poor. No arrow means the pressure is stable.

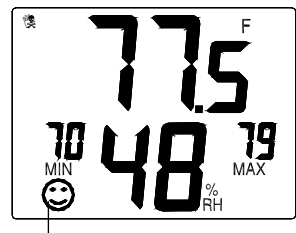


C. STORM WARNING

A storm can be expected if there is a drop of 4 hPa or more in less than 6 hours. The *clouds with rain* icon will be displayed and the tendency arrow that points down will be flashing—indicating the storm warning feature has been activated. The flashing will stop when the air pressure stabilizes or begins to rise.

D. COMFORT LEVEL INDICATOR

The comfort level indicator appears in lower portion of LCD 3 as either a “happy-face” to the left of the indoor humidity, or as a “sad-face” to the right of



the indoor humidity. The indicator will display a “happy-face” when the temperature is between 68°F and 79°F (20°C and 25.9°C), and the humidity is between 45% and 64%. A “sad-face” will be displayed when the temperature and humidity are outside the mentioned ranges.

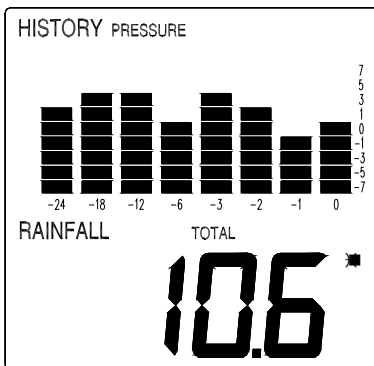
If the humidity is below 45% the word “DRY” will appear to the right of the “sad-face” icon. If the humidity is above 54% the word “wet” will appear to the right of the “sad-face” icon.

IV. BAR GRAPH HISTORIES

A. AIR PRESSURE HISTORY

The air pressure is indicated by the appearance of the word “PRESSURE” at the top of the LCD 5 screen.

The bar graph (in LCD 5) shows in hPa (Hekto Pascal) the recorded air pressure over the past 24-hours. The horizontal axis shows the hours at increments of 24-hours, 18-hours, 12-hours, 6-hours, 3-hours, 2-hours, 1-hour, and 0-hours. The vertical axis is set by hPa: the “0” on this axis represents the current hPa, and + or – 1,3,5, or 7 shows (in hPa) how high or low the past air pressure was as compared to the current one. The “0” on the vertical axis indicates the air pressure value seen in LCD 4. The “0” on the horizontal axis indicates that the “0” on the vertical axis is the present air pressure. Each brick on the bar graph represents a value of 0.03 hPa, and each brick also has a corresponding value on the vertical axis. Multiply the two values to find past air pressure (note the + or – sign of values on the vertical axis); i.e. $0.03 \text{ hPa} \times 3 = 0.09 \text{ hPa}$, now add this value to the air pressure (in LCD 4) to evaluate what past air pressures have been.



Position “0” on both the vertical and horizontal indicate present air pressure. “-1” on the horizontal was 1-hour ago. The top bar corresponds with “-1” on the vertical axis, multiply 0.03×-1 , we get -0.03 hPa . Add -0.03 to current air pressure readings to attain the air pressure 1-hour ago. A decline in air pressure is shown between the “-3” and “-1” hours.

Air pressure trends can be determined by simply glancing at the bar graph. If the bars are rising (higher on the right than the left) then the

air pressure has a rising trend, and the weather should improve. If the bars are dropping (lower on the right than the left) then the air pressure has a falling trend, and the weather should worsen.

B. RAINFALL HISTORY

The bar graph will also display the rainfall history; this mode is indicated by the appearance of the word "RAIN" at the top of the LCD 5 screen.

The horizontal axis measures the past time periods, with "0" representing the current day, week, or month and "7" representing the oldest information (7 days ago, 7 weeks ago, or 7 months ago). The graph reads from right to left.

The vertical axis measures the rainfall in either preferred increments of inches or millimeters. The normal (default) measurement scale is: in inches {0, 0.1, 0.3, 0.5, 1, 2, 3, 5, 10}; in millimeters {0, 1, 3, 5, 10, 30, 50, 100}. If, within any selected time period (1 day, 1 week, 1 month), rainfall exceeds 7 inches (178mm) the measurement scale automatically changes to: in inches {0, 1, 3, 5, 10, 20, 30, 50, 100}; in millimeters {0, 10, 30, 50, 100, 300, 500, 1000}.

The bar graph will display the rainfall history either by day, week, or month. To select which display:

1. Press the *RAIN* button twice. The "DAY" icon will flash beside the "RAIN" icon at the top of LCD 5.
2. Press the *CH/+* button to toggle through the "WEEK," "MONTH," and "DAY" icons.
3. Press the *RAIN* button (or wait 20 seconds) to confirm and exit this selection mode.

If "DAY" is selected, the graph will display the rainfall history for the past 7 days. The information that is displayed in column "0" (the right column) is renewed daily at midnight, and the information contained in the columns is shifted to the left. If "WEEK" is selected, the graph will display the rainfall history for the past 7 weeks. The information that is displayed in column "0" is renewed every Monday at midnight, and the information contained in the columns is shifted to the left. If "MONTH" is selected, the graph will display the rainfall history for the past 7 months. The information displayed in column "0" is renewed on the first day of every month, at midnight. The information contained in the columns is shifted to the left.

The bar graph displays the columns sequentially from “0” to “7” until all columns are showing. Then they are hidden again, and the sequential display is repeated. It is possible to read each column, one at a time—simultaneously displaying the numeric measurement for that column directly under the bar graph. To do this:

1. Press the *RAIN* button twice, either “DAY,” “WEEK,” or “MONTH” should flash to the left of the “RAIN” icon.
2. Press the *SET* button, column “0” will flash, and the rainfall measurement value is displayed directly under the bar graph.
3. Press the *CH/+* button to toggle through columns “0” to “7.”
4. While column “7” is flashing press the *CH/+* button to exit this mode.

V. RAINFALL QUANTITY

The rainfall quantities can be displayed 4 different ways, represented by 4 different time period icons, and measured in 2 different units of measure (inches or millimeters). The quantities are displayed in the lower portion of LCD 5, and the time period icons appear between the quantity and the bar graph.

1. While in normal viewing mode, press the “RAIN” key once. The current selected period will flash (“TOTAL”, “1H”, “24H”, or the rain icon).
2. Press the “+” key to toggle through the selections. Following is a list of the 4 time period icons and a description of what they represent.

“TOTAL”—(the default setting) shows the total accumulated rainfall since the last set-up or manual reset.

“1h”—shows the rainfall measurement of the past hour. Information is updated every hour on the half-hour (i.e. ...at 6:30, at 7:30 and at 8:30...).

“24h”—shows the measured rainfall of the last 24-hour period. Updates are made daily at 7:00 am.

“rain icon”—resets automatically at the beginning of a rainfall, it will show and keep track of the current rainfall quantities, once the current rainfall is complete it will display the quantity of that rainfall until a new rain begins, then it will automatically reset.

3. Press the “RAIN” key twice to exit this mode, or do not press any buttons for 20 seconds.

VI. RESETTING RAINFALL INFORMATION

A. RAINFALL QUANTITY TOTALS

Resetting the Rainfall Quantity Totals will clear the numeric data held under “TOTAL,” “1h,” and “24h,” resetting all to 0.00 (appearing in LCD 5).

From any selected normal display mode:

1. Press and hold the *RAIN* button for 3 seconds.
2. Resetting will automatically shift to display “TOTAL.” The numeric data under “TOTAL” in LCD 5 will read 0.00.

Note: *Resetting the Rainfall Quantity Totals does not affect the Rainfall History represented in the bar graph.*

B. MANUAL SETTING OF THE RAIN MULTIPLICATOR

Note: *The rain multiplier is the height of rain held in the teeter-totter bucket (inside the rain gauge) before it is tipped. It is preset to a value of 0.267mm by the manufacturer prior to shipping; this number produces the most accurate rainfall measurement. There is no need to manually set this number unless it has been changed.*

1. Remove the batteries and wait 30 seconds. (This will also reset the Rainfall Quantity Totals).
2. Checking the polarity, install batteries.
3. During the brief 2 seconds that all LCD screens light up, simultaneously press and hold the *MOON* and *MIN/MAX* buttons.
4. Three numbers will appear in LCD1 (“267” is the default), with the last digit (7) flashing.
5. Use the *CH/+* button to change the last digit to a 7 and press the *SET* button.
6. Use the *CH/+* button to change the middle digit to a 6 and press the *SET* button.
7. Use the *CH/+* button to change the first digit to a 2 and press the *SET* button. The Weather Center will enter into normal operating mode. Do not press any buttons while the Weather Center searches for transmission signals.
8. Follow Program Mode for set-up procedures.

C. HARD RESET OF EEPROM WEATHER CENTER MEMORY

Note: *This is to be used if there are problems with transmission, or if the rainfall history bar graph needs to be cleared.*

1. Remove the batteries and wait 30 seconds. (This will also reset the Rainfall Quantity Totals).
2. Checking the polarity, install batteries.
3. During the brief 2 seconds that all LCD screens light up, simultaneously press and hold the *MOON* and *MIN/MAX* buttons.

“267” (the default rain multiplier setting) will appear in LCD 1. The “7” will be flashing.

If “267” does not appear, it will be necessary to set the manually set the digits. Use the CH/+ button to change the digit, and the SET button to select the digit to be changed.

4. Press the *SET* button two times. (The 2 should flash).
5. Hold the *SET* button down until the air pressure (in hPa) briefly flashes in LCD 4. “LCD 7” will flash in LCD 2 for 15 seconds.
6. Do not press any buttons while the Weather Center searches for transmission signals.
7. Follow Program Mode for set-up procedures.

VII. ADDING MORE SENSORS (optional)

The WS-7095U can receive signals from up to three Sensors. The Sensor model(s) that you choose will come with their own set of instructions—follow those instructions for a complete guide to setting up. Following are some brief instructions for the basic set-up of additional sensors with the WS-7095U. Additional sensors can be purchased through the same dealer as this Weather Center, or by contacting La Crosse Technology directly (contact information can be found at the end of this manual). A TX4U will monitor temperature and humidity (it is the same model that comes with the WS-7095U), a TX3U will monitor temperature only, and the TX3UP monitors temperature via a 10 foot probe for use in pools, spas, etc. The TX3 units do not monitor humidity, thus when they transmit their information to the Weather Center dashes “- -” appear in the Humidity Display.

Note: *When setting up multiple sensors it is important to remove the batteries from all existing units in operation, then to insert batteries first into all the sensors, and in numeric sequence. Second install batteries into the Weather Center. Transmission problems will arise if this is not done correctly and if the total time for set-up exceeds 6 min.*

A. SET-UP OF MULTIPLE SENSORS

Note: *The first sensor signal that the Weather Center receives is automatically assigned as the “boxed #1.” The 2nd to be received is the “boxed #2,” and the 3rd is the “boxed #3.”*

1. It is necessary to remove the batteries from all units currently in operation.
2. Remove the battery covers to all sensor units (new and old).
3. Place all sensors in a numeric sequential order.
4. In sequential order, install batteries into the sensors (follow the same battery installation procedures seen in section I. A).
5. Install batteries into the Weather Center.
6. Follow the Programming Mode instructions to program and set-up the Weather Center.

B. SELECTING WHICH SENSOR DATA TO DISPLAY

1. To view the outdoor temperature and humidity from a different sensor, press the *CH/+* button. A shift from a “boxed #1” to a “boxed #2” should be observed under the “MIN” icon in LCD 6.
2. Press the *CH/+* button a second time to shift from the “boxed #2” to the “boxed #3”. (Information will display only if you have three sensors in operation).
3. To view information from the first sensor again, press the *CH/+* button.

MOUNTING

Note: *Before permanently mounting, ensure that the Weather Center is able to receive signals from the sensors at the desired location. Extreme and sudden changes in temperature will decrease the accuracy of the Weather Center, 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 the TX4U—Remote Thermo-Hygro (or any sensor) where direct sunlight can reach the sensor. We recommend that you mount the sensor on a North-facing wall. The sending range of the TX4U and the TX5U is 80-ft (25m) however obstacles such as walls, concrete, and large metal objects can reduce the range. Place all units in their desired location, and wait approximately 15 minutes before permanently mounting to ensure that there is proper reception. The Weather Center should display an outdoor temperature in LCD 6 within 5 minutes of setting up. If the Weather Center loses the signal from the sensor, it will display the last temperature reading for 15 minutes. After 15 minutes of not receiving any signals, LCD 6 will display “-.-”. LCD 5 should show “0.0” within 6 minutes of receiving signals from the TX5U. If the TX5U signal is lost “-.-” will appear in LCD 5.*

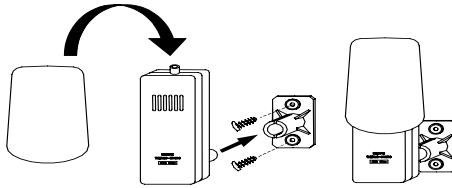
I. THE TX4U—REMOTE THERMO-HYGRO SENSOR

The TX4U—Remote Thermo-Hygro Sensor can be mounted in two ways:

- with the use of screws or,
- using the adhesive tape.

A. MOUNTING WITH THE SCREWS

1. Remove the mounting bracket/receptor from the packaging.
2. Place the mounting bracket over the desired mounting surface. Through the 2 screw holes of the bracket, mark the mounting surface with a pencil.
3. Where marked, start the screw holes using the provided screws. Remove screws from the mounting surface.
4. Align the mounting bracket with the started screw holes.



5. Screw mounting bracket onto the mounting surface. The screws should be flush with the bracket.
6. Fit the mounting post (on the back of the sensor) into the receptor of the mounting 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. Press firmly onto the designated area on the back of the mounting bracket.
3. Remove the protective strip from the other side of the tape, and situate the mounting bracket. Firmly press the mounting bracket onto the mounting surface.
4. Fit the mounting post into the receptor of the mounting bracket.

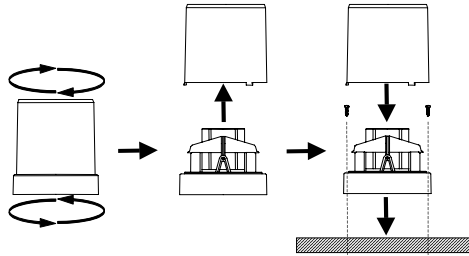
II. THE TX5U—RAINFALL SENSOR

The Rainfall Sensor can be mounted in two ways:

- simply placing it in a desired location, or
- mounting it to surface with the provided screws.

Ensure that the Rainfall Sensor is completely horizontal and stable.

1. Rotate the rainfall collector separating it from the base.

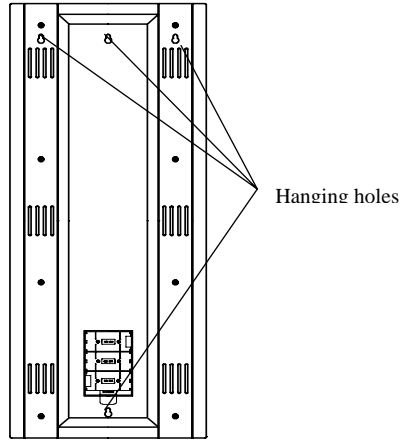


2. There are two cylindrical holes in the base to guide the mounting screws. Place the base over a desired mounting surface. With a pencil, mark the mounting surface through the cylindrical holes.
3. Where marked, start the screws.
4. Place the base over mounting surface. Install screws through the cylindrical holes and into the started holes on the mounting surface.
5. Secure the screws, ensuring that no part of the base can lift off the mounting surface.
6. Remove the manufacture tape from the teeter-totter on the base. If this is not done there will be no way to measure rainfall, and no measurement will display on the Weather Center.
7. Place the rainfall collector onto the base. Place the 3 tabs (on the rainfall collector) into the tab slots (on the base) and turn counter-clockwise.

III. THE WS-7095U—WEATHER CENTER

1. Using a straightedge, horizontally space at $3 \frac{3}{16}$ of an inch (81mm) three screw positions on a wall. From the center screw position, use the straightedge to vertically mark a fourth screw position $20 \frac{5}{16}$ of an inch (516mm) down.

2. Install four mounting screws (not included) into a wall within transmission range—leaving approximately $\frac{3}{16}$ of an inch (5mm) extended from the wall for the center screws, and $\frac{11}{16}$ of an inch (18mm) extended from the wall for the two outer screws.
3. Place the Weather Center onto the screws, using the hanging holes on the backside. Gently pull the Weather Center down to lock the screws into 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 solvents or scouring agents—they may mark and damage the displays and casings.
- Do not submerge in water.
- Immediately remove all low powered batteries to avoid leakage and damage. Replace with new batteries only, and of recommended size.
- Opening the casings invalidates the warranty. Do not try to repair the units. Contact La Crosse Technology for Repairs.

TROUBLESHOOTING

Problem:	The LCD is faint.
Solution:	1) Set the LCD contrast to a higher level. 2) Replace batteries.
Problem:	No outdoor temperature/humidity or rainfall is displayed.
Solution:	1) Remove all batteries, reinsert into sensor first, then Weather Center. 2) Place remote sender closer to display. 3) Be sure all batteries are fresh. 4) No other interfering sources on a 433MHz frequency are being used (such as computer monitors, TV sets, headphones, or speakers) in the vicinity. 5) Transmission may have limited capabilities. 6) Perform Hard Reset in section VI, C.
Problem:	Need to reset the bar graph (EEPROM Weather Center memory).
Solution:	1) Remove batteries, and follow instructions in VI, C under Features and Operations.
Problem:	Rainfall amount is not correct.
Solution:	1) Manually change the rain multiplier number to 267, following instructions in VI, B
Problem:	Temperature/Humidity are incorrect.
Solution:	1) Check/Replace batteries. 2) If multiple sensors are in use, check location with corresponding “boxed numbers.” 3) Move away from sources of heat/cold.
Problem:	“- -” in humidity display.
Solution:	1) Humidity is below 20% or above 95%. 2) TX3U or TX3UP is used.
Problem:	Air pressure is incorrect.
Solution:	1) Adjust relative air pressure to a value from a reliable source (TV radio, etc.).

SPECIFICATIONS

Weather Center—recommended operating temperature:	32°F to 122°F (0°C to 50°C).
LCD contrast:	16 levels (0-15).
Moon phase time span:	29 Dec. 98 to 10 Jan. 2020.
Temperature measuring range	
Indoor:	14°F to 140°F with 0.2°F resolution. (-9.9°C to 59.9°C with 0.1°C resolution). “OFL” displayed if outside this range.
Outdoor:	-22°F to 140°F with 0.2°F resolution. (-29.9°C to 59.9°C with 0.1°C resolution). “OFL” displayed if outside this range.
Relative humidity range	
Indoor/Outdoor:	20% to 95% with 1% resolution. Display “--.-” if outside this range.
Air pressure	
Absolute hPa/inHg:	700 hPa to 1099 hPa. (20.67 inHg to 32.46 inHg).
Relative hPa (adjustable):	970 hPa to 1030 hPa.
Relative inHg (adjustable):	28.60 inHg to 30.45 inHg.
Sensitivity setting hPa:	1 hPa to 4 hPa.
Air pressure history:	For the past 24-hours (0, -1, -2, -3, -6, -12, -18, and -24).
Rainfall measurements	
Rain quantity display:	0, 0.1, 0.3, 0.5, 1, 2, 3, 5, 10 inches or 0, 1, 3, 5, 10, 20, 30, 50, 100 inches—scale change is automatic if rain greater than 7-8 inches (178-203mm). (0, 1, 3, 5, 10, 30, 50, 100 mm or 0, 10, 30, 50, 100, 300, 500, 1000 mm).
Rain quantity history:	For the past 7 days, weeks, or months (0, -1, -2, -3, -4, -5, -6, and -7 in each case).
Data checking intervals	
Indoor temperature:	Every 10 seconds.
Indoor humidity:	Every 10 seconds.
Outdoor temperature:	Every 10 seconds for the first 12 minutes, then every 5 minutes.

Outdoor humidity:	Every 10 seconds for the first 12 minutes, then every 5 minutes.
Rain quantity:	Every 10 seconds for the first 12 minutes, then every 5 minutes.
Sensor reading update	
Outdoor temperature:	Every 1 minute.
Outdoor humidity:	Every 1 minute.
Rain quantity update (Rain Gauge):	Updates every tip of the bucket. Depending on rain multiplier (normally 0.267mm rain quantity).
Transmission frequency:	433.92 MHz.
Transmission range:	80 feet (25m).
Power supply	
Weather Center:	3 x C (IEC LR14) 1.5V batteries.
Thermo Hygro Sensor:	2 x AA (IEC LR6) 1.5V batteries.
Rain gauge:	2 x AA (IEC LR6) 1.5V batteries.
Dimensions (L x W x H)	
Weather Center:	9.36 x 1.56 x 23.4 inches (240 x 40 x 600 mm).
Thermo Hygro Sensor:	1.56 x 0.78 x 4.29 inches (40 x 20 x 110 mm).
Rain Gauge (diameter x H):	5.07 x 7.41 inches (130 x 190 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 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
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 ID: OMO-01TX (sensor), OMO-01RX (receiver)

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, AND**
- 2. THIS DEVICE MUST ACCEPT INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.**

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