LA CROSSE®
TECHNOLOGY

WIRELESS FORECAST STATION

Model WS-9057U-IT-LC| Quick Setup Guide

This product offers:

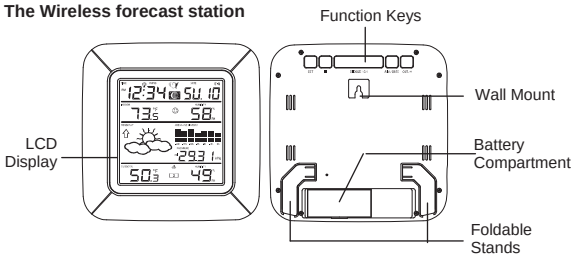
***INSTANT TRANSMISSION* is the state-of-the-art new wireless transmission technology, exclusively designed and developed by LA CROSSE TECHNOLOGY. *INSTANT TRANSMISSION* offers you an immediate update (every 4 seconds!) of all your outdoor data measured from the transmitters: follow your climatic variations in real-time!**

INVENTORY OF CONTENTS

1. Wireless Forecast Station
2. Thermo/hygro transmitter (TX29UDTH-IT)
3. Instruction manual

FEATURES:

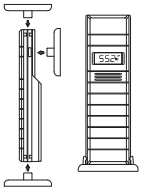
The Wireless forecast station



- WWVB Radio controlled time with manual setting option
- Time reception ON/OFF (user selectable)
- 12/24 hour time display
- Time zone option ±12 hours
- Daylight saving time (DST On/Off)
- Weekday and day calendar display (year and month only in setting mode)
- Alarm setting with snooze function
- Display 12 Moon phases throughout the year
- Weather forecasting with weather tendency indicator
- Indoor comfort indicator
- Temperature display in °F/°C
- Indoor and outdoor temperature display with MIN/MAX records and time of reception
- Humidity data display as RH%
- Indoor and outdoor humidity display with MIN/MAX records
- Relative air pressure hPa/ inHg with adjustable reference value
- Weather icon sensitivity setting
- Relative air pressure history for the past 24 hours (electronic barometer with barometric pressure trend)

- LCD contrast selectable
- Can receive up to 3 outdoor transmitters
- Wireless transmission at 915 MHz
- Signal reception intervals at 4 seconds
- Low battery indicator
- Table standing or wall mounting

Thermo-Hygro Transmitter



- Remote transmission of outdoor temperature and humidity to wireless forecast station by 915 MHz signals
- Alternate display of temperature and humidity display
- Water-resistant casing
- Wall mounting case. (Mount in a sheltered place. Avoid direct rain and sunshine

SETUP INSTRUCTIONS STEP BY STEP:

STEP 1:

- Remove battery cover from the wireless forecast station. Lift up and pull out to remove the cover.
- Insert 2 NEW “C” batteries (not included) into the back of the wireless forecast station. Observe the correct polarity (see marking inside the battery compartment).
- The Wireless Forecast Station will light up and show, indoor temperature, humidity and pressure.
- **Do Not Mix Old and New Batteries**
- **Do Not Mix Alkaline, Standard, Lithium or Rechargeable Batteries**

STEP 2:

- Ensure that the transmitter is within 10 feet of the wireless forecast station.
- Remove battery cover from TX29UDTH-IT transmitter: Slide the battery cover down and lift off the back.
- Insert 2 NEW AA batteries into the transmitter. Observe the correct polarity.

- Within 3 minutes the Wireless forecast station will show readings in the outdoor temperature area on the LCD.
- **Note**: Allow the Wireless forecast station and the transmitter to stay within 10 feet of each other for the first 15 minutes of set up.

TROUBLE SHOOTING:

- If the wireless forecast station does not display the outdoor temperature after 3 minutes, remove the batteries from both units and start the setup process again.
- For optimal 915MHz signal reception, the outdoor transmitter should be placed within 330 feet (100 meters) from the indoor Wireless forecast station.
- The forecast icons on the Wireless forecast station require 48-60 hours to synch with the barometric pressure, so immediate readings may not be accurate.

SETUP WITH MULTIPLE TRANSMITTERS:

The wireless forecast station will accommodate up to three remote outdoor transmitters (TX29UDTH-IT). The SNOOZE/CH button allows

you to easily see the temperature in various locations: outdoors, baby's room, greenhouse, basement, etc.

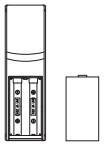
To connect multiple remote transmitters to the Wireless Forecast Station:
1. Remove the battery cover from all the transmitters.
2. Insert 2-AA batteries in the first outdoor transmitter.
3. Insert 2 NEW "C" batteries (not included) into the back of the wireless forecast station. The Wireless Forecast Station will light up and show, indoor temperature, humidity and pressure.
4. When the reading appears in the outdoor temperature area, move to the second transmitter.
5. Insert 2-AA batteries in the second outdoor transmitter.
6. The outdoor temperature area should show a temperature reading on channel 1 and on channel 2.
7. When the readings appear in the outdoor temperature area (channel 2), move to the third transmitter.
8. Insert 2-AA batteries in the third outdoor transmitter.
9. When RF (radio frequency) connection is established, the respective temperature & humidity for each of the selected channels (1, 2, or 3) will appear on the main unit. Allow the transmitters and wireless

forecast station to sit near each other for 15 minutes to lock in the signals.

Press and release the SNOOZE/CH button to view channel 1, 2 or 3 on the Wireless Forecast Station when multiple transmitters are used.
Note: You cannot change channels if only one transmitter is connected.
Notes:
- If the signal reception is not successful on the first frequency of 915MHz for 45 seconds, the frequency is changed to 920MHz and the learning is tried for another 45 seconds. If it is still not successful the reception is tried for 45 seconds on 910MHz. This will also be done during re-synchronization.
- When the wireless forecast station is receiving the WWVB time signal, the outdoor transmitter data signal will temporarily not be received by the wireless forecast station. During this short period of time, the outdoor readings shown on the wireless forecast station will not be renewed until the WWVB time signal is successfully received.

TO INSTALL AND REPLACE BATTERIES IN THE THERMO-HYGRO TRANSMITTER

The Thermo-Hygro Transmitter uses 2 x AA, IEC, LR6, 1.5V batteries. To install and replace the batteries, please follow the steps below:
1. Remove the cover.
2. Insert the batteries, observing the correct polarity (see marking).
3. Replace the battery cover.

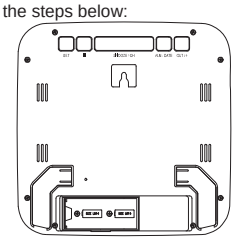


Note:
When changing batteries in any of the units, all units need to be reset by following the setting up procedures. This is due to a random security code assigned by the transmitter at start-up. This code must be received and stored by the Wireless forecast station in the first 3 minutes of power being supplied to the transmitter.

TO INSTALL AND REPLACE BATTERIES IN THE WIRELESS FORECAST STATION

The Wireless forecast station uses 2 x C, IEC LR14 1.5V batteries. To install and replace the batteries, please follow the steps below:

1. Insert finger or other solid object in the space at the bottom center of the battery compartment and lift up to remove the cover.
2. Insert batteries observing the correct polarity (see marking).
3. Replace compartment cover.



PROGRAM MENU

The SET button moves through the program menu. When you press and release the SET button after each step, you will be moved to the next step. The OUT/+ button will change a value.

CONTRAST: Hold the SET button for five seconds. LCD 4 will flash. To increase or decrease the Contrast of the LCD display, press and release the OUT/+ button. Press and release the SET button once to move to the **time zone**.

TIME ZONE: The **Time Zone** will flash, showing a number following by the letter **h**. Use the OUT/+ buttons to change the Time Zone. Please note North American Time Zones are Negative Numbers: -4h Atlantic, -5h Eastern,-6h Central, -7h Mountain, -8h Pacific, -9h Alaskan and -10h Hawaiian. The dash preceding the Time Zone number must be showing for these Time Zones to be accurate. Press and release the SET button to move to DST setting.

DAYLIGHT SAVING TIME: DST will show and **ON** will flash. Most states use DST, so this should be set to ON. However if your location does not use DST, use the OUT/+ button to turn it OFF. Press and release the SET button once to select radio-controlled time.

RADIO-CONTROLLED TIME: RCC will show and **ON** will flash. Use the OUT/+ button to set the RCC signal. (Leave this ON to receive WWVB signal) Press and release the SET button once to select 12/24-hour time.

12/24-HOUR TIME MODE: Either **12h** or 24h will flash. Use OUT/+ button to change from 12 to 24 hour format time (12h for AM/PM, 24h for military time). Press and release the SET button once to select hour.

HOUR: The **Hour** will flash. Use the OUT/+ button to set the Hour. If using 12-hour Time Mode, be sure to check the hour for am or pm. Press and release the SET button once to move to minutes.

MINUTES: The **Minutes** will flash. Use the OUT/+ button to set the minutes. Press and release the SET button once to select the year.

YEAR: The **Year** will flash. Use the OUT/+ button to set the Year. Press and release the SET button once to select the month.

MONTH: The **Month** will flash. Use the OUT/+ button to set the Month. Press and release the SET button once to select the date.

DATE: The **numeric day** will flash. Use the OUT/+ button to set the Date correctly. Press and release the SET button once to select Fahrenheit or Celsius.

FAHRENHEIT OR CELSIUS: A degree symbol will flash, followed by **F** or **C**. Use the OUT/+ button to change to your preference. Press and release the SET button once.

AIR PRESSURE UNITS: The barometric air pressure units will now flash. Press and release the OUT/+ button to select **inHg** (inches of Mercury) or **hPa** (hectopascal or milibars).Press and release the SET button once to set pressure numbers.

RELATIVE AIR PRESSURE: The Relative Barometric Air Pressure **number setting** will flash **29.92** inHg or 1012.8 hPA (default settings).Press and release the OUT/+ button to increase the setting or the IN button to decrease the setting. Press and release the SET button once to set forecast sensitivity.

FORECAST SENSITIVITY: Two air pressure tendency arrows will appear and a **flashing number** (2, 3, or 4) will appear under the forecast icon. Press and release the OUT/+ button to select the desired Forecast Sensitivity setting. The lowest number is used near the coastline, the highest number is for the desert, and middle number is for everywhere

else. Press and release the SET or SNOOZE/CH button once to return to normal display.

TIME ALARM

SET TIME ALARM: Press and hold the ALM/DATE button for five seconds. The alarm will begin to flash to the right of the moon phase.

- **HOUR**: Press and release the IN button to adjust the hour (am or pm).
- **MINUTE**: Press and release the OUT/+ button to adjust the minute. Press SNOOZE/CH to return to normal display.

ACTIVATE ALARM: Press and release the ALM/DATE button to toggle between the alarm and day/date. When the alarm time and alarm icon are showing to the right of the moon phase the alarm is activated.

DEACTIVATE ALARM: To deactivate the alarm press and release the ALM/DATE button and alarm icon will disappear. When the day and date are showing, the alarm is deactivated.

ACTIVATE THE SNOOZE: While the alarm is sounding press and release the SNOOZE/CH button. The snooze will be activated for 10 minutes. The alarm will come back on after 10 minutes.

DEACTIVATE THE SNOOZE: To deactivate the snooze function press and release any button other than either of the SNOOZE/CH buttons.

MIN/MAX TEMPERATURE READINGS

This station will show the minimum and maximum temperatures from setup, until you reset the min/max temperatures or remove the batteries from the station. If you wish to view a 24-hour min/max reading, reset the min/max temperatures at the same time each day.

VIEW INDOOR MIN/MAX RECORDS: Press and release the IN button to display Indoor Max, Min and Current records.

RESET INDOOR MIN/MAX RECORDS: Press and release the IN button to select the record you wish to reset, either MAX or MIN. Press and hold the SET button for five seconds. The record is now reset to the Current Date, Temperature and Humidity.
Note: Each Min or Max value will need to be reset separately.

VIEW OUTDOOR MIN/MAX RECORDS: Press and release the OUT/+ button to display the Outdoor Max, Min and Current records.

RESET OUTDOOR MIN/MAX RECORDS: Press and release the OUT/+ button to select the record you wish to reset, either MAX or MIN. Press and hold the SET button for five seconds. The record is now reset to the Current Date, Temperature and Humidity.
Note: Each Min or Max value will need to be reset separately

BAROMETRIC PRESSURE READINGS

NUMERIC AIR PRESSURE READING: The actual barometric air pressure is displayed directly under the weather forecast icon. You can set this to your local reporting station through the program menu.

AIR PRESSURE HISTORY BAR CHART: The bar graph shows the recorded air pressure over the past 24-hours in hPa. The horizontal axis shows the hours at increments of -24 hours, -18 hours, -12 hours, -9 hours, -6 hours, -3 hours and 0 hours.

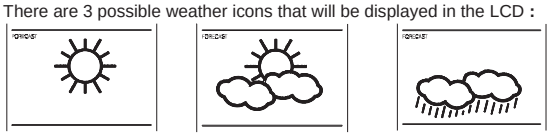
The 0h on the horizontal axis indicates the **current hour**, thus the current air pressure. Each bar on the bar graph represents a value of 0.03 hPa, and each bar also has a corresponding value on the vertical axis. The vertical axis is set in hPa: the '0' on the axis represents the current hPa, and how high or low the past air pressure was as compared to the current pressure.

DETERMINE AIR PRESSURE TRENDS: 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 side that the left) then the air pressure has a falling trend and the weather should worsen.
Note: The bar chart will constantly scroll to avoid burnout of the LCD.
THIS FEATURE CANNOT BE TURNED OFF.

WEATHER FORECAST ICONS:

The weather forecasting feature is estimated to be 75% accurate. The weather forecast is based solely upon the change of air pressure over time. In areas where the weather is not affected by the change of air pressure, this feature will be less accurate.

Weather Icons
There are 3 possible weather icons that will be displayed in the LCD **:**



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 “partly sunny” to “cloudy” or the reverse. If the symbols do not change then the weather has not changed, or the change has been slow and gradual.

Weather Tendency Arrows
Other possible displays are 2 weather tendency arrows, one that points up (on the left side of the forecast) and one that points down (on the right side of the forecast). 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. An 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.

COMFORT INDICATOR FOR INDOOR TEMPERATURE AND HUMIDITY:

The comfort level indicator appears in between the indoor temperature and humidity.
The indicator will display a happy-face when the temperature is between 68 and 79 degrees Fahrenheit (20 and 25.9 degrees Celsius) and the humidity is between 45% and 64%.

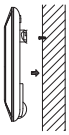
A sad-face will be displayed when the temperature and humidity are outside the mentioned ranges.

POSITIONING THE WIRELESS FORECAST STATION

The Wireless forecast station provides the option of table standing or wall mounting the unit. Before wall mounting, please check that the outdoor data can be received from the desired locations.

FOLDOUT TABLE STANDS:
The foldout table stands legs are located on the backside. Simply unfold the stands on the back. Once the foldout table stands are extended, place the wireless forecast station in an appropriate location.

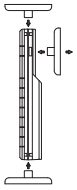
TO WALL MOUNT:
1. Fix a screw (not supplied) into the desired wall, leaving the head extended out by about 0.2" (5mm).
2. Place the wireless forecast station onto the screw, using the hanging hole on the backside. Gently pull the wireless forecast station down to lock the screw into place.



POSITIONING THE OUTDOOR TRANSMITTER

To achieve a true temperature reading, avoid mounting where direct sunlight can reach the outdoor temperature sensor or Wireless Temperature Station. While the outdoor temperature sensor is weather resistant, avoid submersion in water or snow. We recommend that you mount the outdoor temperature sensor on an outside North-facing wall. The transmission range is 330ft— open air. Obstacles such as walls, concrete, and large metal objects can reduce the range. Place both units in desired location, and wait approximately 15 minutes before permanently mounting to ensure that there is proper reception.

Wall Mount:
1. Remove the mounting bracket from the outdoor temperature sensor .
2. Place the mounting bracket over the desired shaded location (wall or table).
3. Through the screw holes of the bracket, mark the mounting surface with a pencil.
4. Screw mounting bracket onto the mounting surface. Ensure that the screws are flush with the bracket.
5. Insert the outdoor temperature sensor into the bracket.



Note: Mounting with adhesive tape is not recommended as a permanent mounting solution. Only use the adhesive tape during set-up process.

CARE AND MAINTENANCE:

- **Do Not Mix Old and New Batteries**
- **Do Not Mix Alkaline, Standard, Lithium or Rechargeable Batteries**
- Do not expose the display to extreme temperatures, vibration or shock.
- Keep display dry.
- Clean display with a soft damp cloth. Do not use solvents or scouring agents.
- The product is not a toy. Keep it out of reach of children.
- The product is not to be used for medical purpose or for public information, but is determined for home use only.
- The specifications of this product may change without prior notice.
- Improper use or unauthorized opening of housing will void the warranty.
- If the unit does not work properly, change the batteries.

SPECIFICATIONS

Temperature measuring range:

Indoor:	14.2ºF to 139.8ºF with 0.2ºF resolution -9.9ºC to +59.9ºC with 0.1°C resolution ("OF.L" displayed if outside this range)
Outdoor:	-39.8ºF to +139.8ºF with 0.2ºF resolution -39.9ºC to +59.9ºC with 0.1°C resolution ("OF.L" displayed if outside this range)

Humidity range:

Indoor humidity range:	20% to 95% with 1% resolution (Display "- -" if temperature is OF.L; display "- -" if < 20% and "95%" if > 95%)
Outdoor humidity range:	20% to 99% with 1% resolution (Display "- -" if outside temperature is OF.L; display 20% if < 20% and 95% if > 95%)

Data checking intervals

Indoor Temperature:	Every 15 seconds
Humidity:	Every 64 seconds
Air pressure checking interval:	Every 15 seconds
Outdoor temperature and humidity:	Every 4 seconds
Transmission range:	up to 330 feet (open space)

Power consumption: (alkaline batteries recommended)

Wireless forecast station:	2 x C, IEC LR14, 1.5V (not included)
TX29UDTH-IT transmitter:	2 x AA, IEC LR6, 1.5V (not included)
Battery life:	up to 24 months

Dimensions (L x W x H):

Wireless forecast station:	7.49"x 1.33"x 7.65"/ 190.4 x 37 x 190.4 mm
TX29UDTH-IT transmitter:	1.50" x 0.83" x 5.05" / 38.2mm x 21.2mm x 128.3mm

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 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 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 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

Contact Support: 1-608-782-1610
Product Registration:
www.lacrossetechnology.com/support/register

The complete instruction manual is available at:
http://www.lacrossetechnology.com/9057/

Protected under U.S. Patents:
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FCC ID: OMO-TX29U (transmitter)
FCC DISCLAIMER

RF Exposure mobile:
The internal / external antennas used for this mobile transmitter must provide a separation distance of at least 20 cm (8 inches) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

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, and (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. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- 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