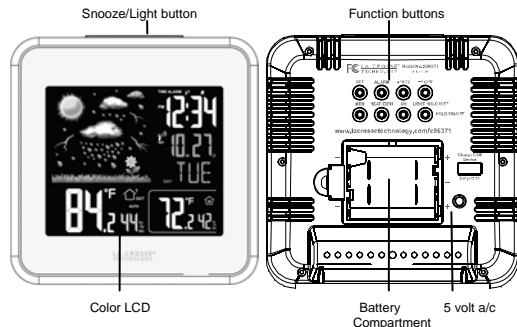# LA CROSSE®
TECHNOLOGY

Color Atomic Alarm Clock
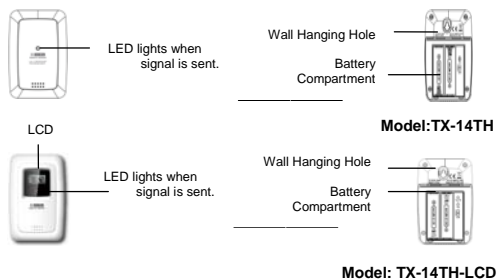## with 12 Hr. Forecast and Snooze Alarm
Model: C86371

INTRODUCTION:
The Color Atomic Alarm Clock offers radio-controlled time, weather forecast, indoor and outdoor temperature/humidity and heat index and dew point, on a stylish, colorful, and easy to read display. Includes a USB charge port that charges your devices from the Color Atomic Alarm Clock.

COLOR ATOMIC ALARM CLOCK:

Snooze/Light button   Function buttons

Color LCD   Battery Compartment   5 volt a/c

OUTDOOR TEMPERATURE/HUMIDITY TRANSMITTER:

LED lights when signal is sent.   Wall Hanging Hole   Battery Compartment

Model:TX-14TH

LCD   Wall Hanging Hole   Battery Compartment

LED lights when signal is sent.

Model: TX-14TH-LCD

INITIAL SET UP:
- Insert A/C adapter **or** 3 AA batteries (not included) into the display.
- Wait for the Temperature area to flash as the display searches for a signal from the outdoor transmitter.
- Insert 2 fresh AA batteries into the transmitter, observing the correct polarity Press the **TX** button to send a signal.
- Keep the transmitter 5-10 feet from the Color Atomic Alarm Clock.
- **IMPORTANT:** When operating on a/c power, the **backlight** will turn off for 2-minutes while the Color Atomic Alarm Clock searches for the WWVB signal, to avoid interference. The backlight will return after the 2-minute search.
- Within 3 minutes the station will beep and the outdoor temperature should be displayed on the Color Atomic Alarm Clock. If the outdoor temperature is not displayed after 3 minutes remove power from the transmitter and the display for 60 seconds and start again.
- For optimum 433 MHz reception, the outdoor transmitter should be placed within 200 feet (60 meters, open air) from the Color Atomic Alarm Clock.
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HOW TO POWER THE COLOR ATOMIC ALARM CLOCK:
A/C power adapter:
Insert the 5-volt a/c power adapter into a wall outlet, then into the Color Atomic Alarm Clock.

Batteries:

- Remove battery cover: Slide tab to the right and pull out to remove battery cover.
- Install three fresh AA batteries according to the polarity markings.
- **Do Not Mix Old and New Batteries**
- **Do Not Mix Alkaline, Standard, Lithium or Rechargeable Batteries**

If the Color Atomic Alarm Clock does not display indoor temperature after 60 seconds, remove adapter and batteries, and wait for at least 60 seconds before repeating the setup process.

INSTALL BATTERIES IN THE OUTDOOR TRANSMITTER:
- Slide the battery cover down and off the back of the transmitter.
- Select the channel, 1, 2, or 3, by moving the switch on the right.
- Insert two fresh AA batteries into the transmitter. Observe the correct polarity (see marking inside battery compartment).
- Press and release the TX button one time.
- Keep transmitter 5-10 ft. from the Color Atomic Alarm Clock during setup.
- After 15 minutes, if the outdoor temperature area has a reading, you can move the outdoor transmitters to and outside location within range of the Color Atomic Alarm Clock.

POSITIONING THE OUTDOOR TRANSMITTER
The remote temperature transmitter should be mounted vertically to avoid damage. Place both units in the desired shaded locations, and wait approximately 1-hour before permanently mounting the transmitter to ensure that there is proper reception. The outdoor temperature/humidity transmitter is water resistant, not waterproof and should not be placed anywhere it will become submerged in water or subject to standing water or snow.

WALL MOUNT
- Choose a location for the transmitter that is within range of the Color Atomic Alarm Clock and under an overhang for accuracy.
- Install one mounting screw (not included) into a wall leaving approximately ½ of an inch (12.7mm) extended.
- Place the transmitter onto the screw, using the hanging hole on the backside.
- Gently pull the transmitter down to lock the screw into place.

To achieve a true temperature/humidity reading, mount where direct sunlight cannot reach the outdoor transmitter. Mount the outdoor transmitter on a North-facing wall or in any well shaded area. Under an eave or deck rail work well. The maximum transmitting range in open air is 200-feet (60 meters). Obstacles such as walls, windows, stucco, concrete, and large metal objects can reduce the range. Place the transmitter at least 6 feet in the air to improve signal transmission.

BUTTON FUNCTIONS:

Button	Press and Release Functions	Hold 3-5 seconds
SET	Move through program menu Confirm setting.	Enter program menu, set time, date, etc.
ALARM	View Alarm Activate/Deactivate Alarm	Alarm set
+/RCC	1 step forward (setup)	Search for WWVB signal Fast advance when setting
-/°C/°F	Select temperature in °C/° F 1 step backward (setup)	Fast backward when setting
MEM	1-time MAX values 2-times MIN values	Resets all MIN / MAX values
HEAT/DEW	1-time Heat Index 2-times Dew Point	
CH	Switch between outdoor temperature/humidity transmitters	Search for remote transmitter
LIGHT HI/LO/OFF HOLD ON/OFF	Dim backlight for night time.	Turn continuous backlight ON or OFF (a/c adapter)
LIGHT/SNOOZE (top)	Activates backlight when using only batteries. Trigger snooze alarm	

PROGRAM MENU:
- **WWVB ON/OFF:** Hold the SET button 5 seconds and WWVB and the word ON will flash. Press and release the +/RCC or -/°F/°C button to turn this to OFF if you do not wish WWVB reception. Confirm with the SET button and move to the next item.
- **TIME ZONE:** EST will flash. Press and release the +/RCC or -/°F/°C button to select a different Time Zone: AST=Atlantic, EST= Eastern, CST= Central, MST= Mountain, PST= Pacific, AKT= Alaska, HAT=Hawaiian time zone. Confirm with the SET button and move to the next item.

- **DAYLIGHT SAVING TIME**: DST will flash and the word ON. Press and release the +/RCC or -/°F/°C button to turn this to OFF if you do not observe DST. Confirm with the SET button and move to the next item.
- **12/24 HOUR TIME**: 12H will flash. Press and release the +/RCC or -/°F/°C button to select 24H. Confirm with the SET button and move to the next item.
- **HOUR**: The hour will flash. Press and release the +/RCC or -/°F/°C button to select the correct hour. Confirm with the SET button and move to the next item.
- **MINUTES**: The minutes will flash. Press and release the +/RCC or -/°F/°C button to select the correct minutes. Confirm with the SET button and move to the next item.
- **YEAR**: The year will flash. Press and release the +/RCC or -/°F/°C button to select the correct year. Confirm with the SET button and move to the next item.
- **MONTH**: The month will flash. Press and release the +/RCC or -/°F/°C button to select the correct month. Confirm with the SET button and move to the next item.
- **DATE**: The date will flash. Press and release the +/RCC or -/°F/°C button to select the correct date. Confirm with the SET button and exit the program menu
- **Note**: The Day of the Week will set automatically.

FAHRENHEIT/CELSIUS: Press and release the -/°F/°C button once to switch from Fahrenheit to Celsius.

AUTO-This word appears in the outdoor temperature/humidity area. The Color Atomic Alarm Clock will automatically switch between channels (when using multiple transmitters).
- Press and release the CH button repeatedly until AUTO is displayed. The Color Atomic Alarm Clock will rotate through all available channels.
- Press and release the CH button once to display only one channel continually.
Note: When only one transmitter is connected, you cannot see other channels.

WWVB RADIO CONTROLLED TIME
The NIST radio station, WWVB, is located in Ft. Collins, Colorado and transmits the exact time signal continuously throughout the United States at 60 kHz. The signal can be received up to 2,000 miles away through the internal antenna in the Color Atomic Alarm Clock. However, due to the nature of the Earth's Ionosphere, reception is very limited during daylight hours. The Color Atomic Alarm Clock will search for a signal every night when reception is best. The WWVB radio station derives its signal from the NIST Color Atomic Alarm Clock in Boulder, Colorado.

WWVB RECEPTION ICON with full signal strength will appear on screen if the reception of atomic time is successful.
- The tower icon will show solid when the display has received the WWVB signal.
- No tower icon displayed. The display was unable to receive a signal at this time.
- Reposition the display for better signal reception or try again at bedtime.

The Color Atomic Alarm Clock will have a daily synchronization at 01:00, 02:00 and 03:00am. Each reception cycle is minimum 2 minutes and maximum 10 minutes.
- **IMPORTANT:** When operating on a/c power, the **backlight** will turn off for 2-minutes while the Color Atomic Alarm Clock searches for the WWVB signal, to avoid interference. The backlight will return after the 2-minute search.

Note: In case the Color Atomic Alarm Clock is not able to detect the WWVB-signal (disturbances, transmitting distance, etc.), the time can be manually set (please refer to notes TIME SET).

BACKLIGHT:
A/C adapter: The backlight is on continuously, when operating the display with the 5-volt a/c adapter.
- **HIGH:** The backlight is defaulted to HI when the a/c cord is inserted.
- **LO:** Press and release the LIGHT HI/LO/OFF button to dim the backlight. Press and release again to return to full strength.
- **OFF:** Hold the LIGHT HI/LO/OFF button for 2 seconds, until the station beeps, to turn the backlight off, to sleep.
- **ON**: Hold the LIGHT HI/LO/OFF button again until the station beeps, to turn the backlight on.
- **Note:** When the backlight is off, press any button to activate the backlight for 8 seconds.

Battery power: Press and release the SNOOZE/LIGHT button and the backlight will show for 8 seconds, when operating on batteries only.

ALARM SET:
- **ALARM HOUR**: Press and hold ALARM button to enter alarm time setting mode. The Alarm Hour will flash. Use the +/RCC or -/°F/°C button to set the Hour. Press and release the ALARM button.
- **ALARM MINUTE**: The Alarm Minutes will flash. Use the +/RCC or -/°F/°C button to set the Minutes. Press and release the ALARM button to exit.

ALARM ACTIVATION:
- Press and release the ALARM button once to show Alarm Time.
- Press and release the ALARM button repeatedly to activate or deactivate the Alarm. The ⏰ alarm icon appears when alarm is activated.
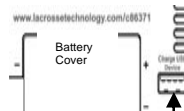
SNOOZE:
- When the alarm sounds, press the SNOOZE button to trigger snooze alarm for 9 minutes. The snooze icon **Zz** will flash when the snooze feature is active.
- To stop alarm for one day, press AL button, while in snooze mode. The alarm icon ⏰ will remain solid.
- **Note**: When the alarm sounds, it continues for 2 minutes and then shuts off completely.
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USB CHARGE PORT:
When operating on a/c power, you may charge a device from the back of the display.
Note: This is a power output port only. The Color Atomic Alarm Clock cannot be powered via this port.

- Connect the USB charge cord for your device to the port on the back of the Color Atomic Alarm Clock and let charge. Charge times will vary.
  - **Output**: 1A maximum current USB.
  - Do not overload USB port.

Note: Check that your device will <u>charge</u> with the USB cord it came with. Many USB cords are for data transfer only, and cannot be used for charging.

MIN/MAX TEMPERATURE/HUMIDTY DATA: This station will show the daily minimum and maximum temperatures each day starting at midnight (12:00 AM). The station automatically resets the min/max temperatures at midnight (12:00 AM).

VIEW MIN/MAX:
- **MAX:** From a normal display press and release the MEM button once to view maximum temperature and humidity values for indoor and outdoor data.
- **MIN:** From a normal display press and release the MEM button twice to view minimum temperature and humidity values for indoor or outdoor data.

RESET MIN/MAX: Hold the MEM button for 5 seconds to reset all min/max values.

HEAT INDEX: Heat Index combines the effects of heat and humidity. It is the apparent temperature of how hot it feels to a human being.

In / Out Heat Index

Note: Heat index will be the same number as the temperature until the temperature is above 80 degrees ° F (26.7° C).

- **INDOOR/ OUTDOOR:** From a normal display press the HEAT/DEW button once and Heat Index will show instead of the ambient temperature.

DEW POINT: Dew point is the saturation point of the air, or the temperature to which the air has to be cooled in order to create condensation.

In / Out Dew Point

Note: Dew Point generally is lower than the temperature.

- **INDOOR/ OUTDOOR:** From a normal display press the HEAT/DEW button twice and Dew Point will show instead of the ambient temperature.

WEATHER FORECAST ICONS:
The unit predicts weather condition of the next 12-hours based on the change of atmospheric pressure. The weather forecast is based on atmospheric pressure change and is about 70-75% correct. As weather conditions cannot be 100% correctly forecasted we cannot be responsible for any loss caused by an incorrect forecast.

SUNNY PARTLY CLOUDY CLOUDY RAINY STORMY

🔋 LOW BATTERY:
- When this icon appears in the Indoor reading section the batteries in the display need to be replaced.
- When this icon appears in the outdoor readings section, replace the batteries in the outdoor transmitter.

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 and/or check the a/c cord connection.

SPECIFICATIONS:
Indoor:
Temperature Range:	+32°F to +122°F (0°C to 50°C)
Humidity Range:	1%-99% (RH)
Interval:	About every 30 seconds

Outdoor:
Range: temperature, dew point, heat index
-40°F to 140°F (-40°C to 60°C)

Alkaline Batteries: -20°F to 140°F (-28.8°C to 60°C)
Lithium Batteries: -40°F to 140°F (-40°C to 60°C)

Temperatures below - 20°F (-28.8°C)
require Lithium batteries in the outdoor sensor.

Humidity Range:	1%-99% (RH)
Distance:	200 ft. (60 meters) RF 433MHz (open air)
Interval:	About every 50 seconds

Power:
Receiver:	5-volt a/c power adapter (included)
	Optional 3-AA, IEC, LR6 batteries (not included)
Transmitter:	2-AA, IEC, LR6 batteries (included).

USB:
Output:	1 Amp maximum current
Battery Life:	Battery life is over 24 months when using reputable battery brands for both Alkaline and Lithium batteries

Dimensions:
Receiver:	5.9" L x 2.36" W x 5.9" H (150 x 60 x 150mm)
Transmitter:	2.5" L x 1.42" W x 3.98" H (64 x 36 x 101mm)

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

The complete instruction manual is available at:
www.lacrossetechnology.com/c86371

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

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) the device must accept any interference received, including interference that may cause undesired operation.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY TO OPERATE THE EQUIPMENT

This device complies with Industry Canada RSS-210. Operation is subject to the following two conditions: (1) this device may not cause interference, and(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio RSS-210. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.