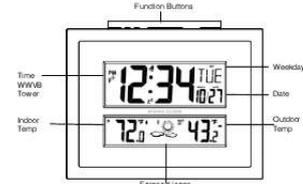---

LA CROSSE® TECHNOLOGY

Digital Atomic Wall Clock
Model: W86111 | Quick Setup Guide

INTRODUCTION:
The Digital Atomic Wall Clock features radio-controlled time, date, forecast icons, indoor and outdoor temperature on an easy to read display. Receives signal from the Atomic Clock in Colorado, for accurate time!

THIS STATION LEARNS!
Please allow 3-4 weeks for barometer calibration to generate an accurate forecast.

DIGITAL ATOMIC WALL CLOCK:

SETUP INSTRUCTIONS STEP BY STEP:

Step 1:
- Remove battery cover from Digital Wall Clock, slide tab down and pull out to remove the cover.
- Insert 2 NEW AA batteries (not included) into the back of the Digital Wall Clock. Observe the correct polarity (see marking inside the battery compartment). Do NOT mix old and new batteries.
- The Digital Wall Clock will show, time (12:00) date (1/1) and indoor temperature.

Step 2:
- Install batteries into the outdoor transmitter.
- Slide the battery cover down and lift off the front of the transmitter.
- Insert 2 NEW AA batteries (not included) into the transmitter. Observe the correct polarity.
- Keep the Digital Wall Clock and the transmitter close to each other (within 10 feet) for 15 minutes.
- Within 3 minutes the outdoor temperature should be displayed.
- **Note:** Use Alkaline batteries (or Lithium for temperatures below - 20°F/- 28.8°C).

Trouble shooting:
- After 3 minutes of waiting, if the Outdoor temperature does not show up in the designated area on the Digital Wall Clock, remove batteries from both units and start the setup process again.
- If the outdoor temperature does not show up after a second attempt, please slide open the battery cover of the outdoor transmitter to reveal the TX button. Push down on the TX button for 3 seconds to send a wireless signal to the Digital Wall Clock.
- Hold the + button on the Digital Wall Clock to search for the transmitter.
- For optimal reception performance, of the 433 MHz signal, the outdoor transmitter should be placed within 200 feet (60 meters) from the Indoor LCD display.

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 Atomic Digital Wall Clock. However, due to the nature of the Earth's ionosphere, reception is very limited during daylight hours. The Atomic Digital Wall Clock will search for a signal every night when reception is best. The WWVB radio station derives its signal from the NIST Atomic 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 Digital Wall Clock has received the WWVB signal.
- No tower icon shows. The Digital Wall Clock was unable to receive a signal at this time.
- Reposition the Digital Wall Clock for better signal reception or try again at bedtime.
- The Digital Wall Clock will start searching at UTC: 07:00 and if no reception on the first attempt they will try again at 08:00, 09:00, 10:00, and 11:00. Each attempt will be at least 2 minutes and the most will be 10 minutes.
- If there is no signal or too much interference the receiver will only be on for 2 minutes.
- If the signal is good it may catch a signal in ABOUT 2-3 minutes.
- If the signal is marginal it will try to catch a signal for up to 10 minutes.
- **Manual Search:** Hold the -/TIME button to start a manual signal search.

Note: In case the Atomic Digital Wall Clock is not able to detect the WWVB signal (disturbances, transmitting distance, etc.); the time can be manually set.

BUTTON FUNCTIONS:

Button	Press and Release Functions	Hold 2 seconds
°F/°C	Move through program menu (setup) Select temperature in °C/°F	Enter program menu, set time, date, etc. (setup)
+	1 step forward (setup)	Search for outdoor Transmitter Fast advance (setup)
-	1 step backward (setup)	Fast backward (setup) WWVB Search
SNOOZE	Trigger snooze alarm (ringing)	
ALARM	Once: View Alarm Twice: Activate or Deactivate Alarm	Alarm set

PROGRAM MENU:
The °F/°C button will move through the program menu. The + or - button will change a value if needed.
- **WWVB ON/OFF:** Hold the °F/°C button for 5 seconds. WWVB and the word ON will flash. Press and release the + or - button to turn this to OFF if you do not wish WWVB reception. Confirm with the °F/°C button and move to the next item.
- **TIME ZONE:** EST will flash. Press and release the + or - 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 °F/°C button and move to the next item.
- **DAYLIGHT SAVING TIME:** DST will flash and the word ON. Press and release the + or - button to turn this to OFF if you do not observe DST. Confirm with the °F/°C button and move to the next item.
- **12/24 HOUR TIME:** 12H will flash. Press and release the + or - button to select 24H. Confirm with the °F/°C button and move to the next item.
- **HOUR:** The hour will flash. Press and release the + or - button to select the correct hour. Confirm with the °F/°C button and move to the next item.
- **MINUTES:** The minutes will flash. Press and release + or - button to select the correct minutes. Confirm with the °F/°C button and move to the next item.
- **YEAR:** The year will flash. Press and release the + or - button to select the correct year. Confirm with the °F/°C button and move to the next item.
- **MONTH:** The month will flash. Press and release the + or - button to select the correct month. Confirm with the °F/°C button and move to the next item.
- **DATE:** The date will flash. Press and release the + or - button to select the correct date. Confirm with the °F/°C button and exit the program menu.
Note: The weekday will set automatically after the year, month and date are set.

FAHRENHEIT/CELSIUS: Press and release the °F/°C button to select temperature readings in Fahrenheit or Celsius.

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

ALARM ACTIVATION ICON
- Press and release the ALARM button once to show Alarm Time.
- With the Alarm time showing, press and release the ALARM button to activate the alarm. The alarm icon appears when alarm is activated.
- With the Alarm time showing, press and release the ALARM button to deactivate the alarm. The alarm icon will disappear when alarm is activated.

SNOOZE:
- When the alarm sounds, press the SNOOZE button to trigger snooze alarm for 10 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.

TEMPERATURE TREND ICONS:
The indoor and outdoor temperature trend indicators are updated every 30 minutes. Trends represent temperature changes over the past three hours.

- Temperature rising more than 2°F (1°C) in the past three hours
- Temperature did not change more than 2°F (1°C) in the past three hours
- Temperature falling more than 2°F (1°C) in the past three hours

The temperature trend indicators are shown next to the indoor temperature and outdoor temperature readings.

OUTDOOR TRANSMITTER RECEPTION ICON:
- When the signal is successfully received from the outdoor transmitter, this icon will be solid.
- This icon will flash when searching for the outdoor transmitter signal.
- If reception is not successful, the icon will not be shown in LCD.

WEATHER FORECAST ICONS:
The unit predicts weather condition of the next 12-hours based on the change of atmospheric pressure. The weather forecast 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 SUNNY   CLOUDY   RAINY   STORMY (Raindrops will blink)

The Icons shown Forecast the Weather in terms of getting better or worse and not necessarily sunny or rainy as each icon indicates.

THIS STATION LEARNS!
Please allow 3-4 weeks for barometer calibration to generate an accurate forecast.

IMPORTANT: As the forecast station builds memory, it will compare the current average pressure to the past forty day average pressure for increased accuracy. The longer the forecast station operates in one location the more accurate the forecast icons will be.

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Manual abstract:

Receives signal from the Atomic Clock in Colorado, for accurate time! THIS STATION LEARNS! @@DIGITAL ATOMIC WALL CLOCK: Function Buttons 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 Atomic Digital Wall Clock. However, due to the nature of the Earth's Ionosphere, reception is very limited during daylight hours. The Atomic Digital Wall Clock will search for a signal every night when reception is best. @@@@@@ No tower icon shows. The Digital Wall Clock was unable to receive a signal at this time. @@@@@@ If there is no signal or too much interference the receiver will only be on for 2 minutes. If the signal is good it may catch a signal in ABOUT 2-3 minutes. If the signal is marginal it will try to catch a signal for up to 10 minutes.

* Manual Search: Hold the -/TIME button to start a manual signal search. Note: In case the Atomic Digital Wall Clock is not able to detect the WWVB signal (disturbances, transmitting distance, etc.); the time can be manually set. BUTTON FUNCTIONS: Button Press and Release Functions Move through program menu (setup) Select temperature in °C/°F 1 step forward (setup) Hold 2 seconds Enter program menu, set time, date, etc. (setup) Search for outdoor Transmitter Fast advance (setup) Fast backward (setup) WWVB Search FAHRENHEIT/CELSIUS: Press and release the °F/°C button to select temperature readings in Fahrenheit or Celsius.*

ALARM SET: ALARM HOUR: Hold the ALARM button to enter alarm time setting mode. The Alarm Hour will flash. Use the + or - button to set the Hour. Press and release the ALARM button. ALARM MINUTE: The Alarm Minutes will flash.

Use the + or - button to set the Minutes. Press and release the ALARM button to exit. ALARM ACTIVATION ICON Press and release the ALARM button once to show Alarm Time. @@alarm. @@The alarm icon will disappear when alarm is activated. @@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. @@Trends represent temperature changes over the past three hours. @@@@@Do NOT mix old and new batteries. The Digital Wall Clock will show, time (12:00) date (1/1) and indoor temperature.

Step 2: Install batteries into the outdoor transmitter. Slide the battery cover down and lift off the front of the transmitter Insert 2 NEW AA batteries (not included) into the transmitter. Observe the correct polarity. Keep the Digital Wall Clock and the transmitter close to each other (within 10 feet) for 15 minutes. Within 3 minutes the outdoor temperature should be displayed. Note: Use Alkaline batteries (or Lithium for temperatures below -20°F/-28.8°C). Trouble shooting: After 3 minutes of waiting, if the Outdoor temperature does not show up in the designated area on the Digital Wall Clock, remove batteries from both units and start the setup process again. If the outdoor temperature does not show up after a second attempt, please slide open the battery cover of the outdoor transmitter to reveal the TX button. Push down on the TX button for 3 seconds to send a wireless signal to the Digital Wall Clock.

@@@@The + or - button will change a value if needed. WWVB ON/OFF: Hold the °F/°C button for 5 seconds. WWVB and the word ON will flash. @@Confirm with the °F/°C button and move to the next item. TIME ZONE: EST will flash.

@@Confirm with the °F/°C button and move to the next item. DAYLIGHT SAVING TIME: DST will flash and the word ON. @@Confirm with the °F/°C button and move to the next item. 12/24 HOUR TIME: 12H will flash. Press and release the + or - button to select 24H.

Confirm with the °F/°C button and move to the next item. HOUR: The hour will flash. Press and release the + or - button to select the correct hour. Confirm with the °F/°C button and move to the next item. MINUTES: The minutes will flash. Press and release + or - button to select the correct minutes. Confirm with the °F/°C button and move to the next item. YEAR: The year will flash. Press and release the + or - button to select the correct year. Confirm with the °F/°C button and move to the next item.

* MONTH: The month will flash. Press and release the + or - button to select the correct month. Confirm with the °F/°C button and move to the next item. DATE: The date will flash. Press and release the + or - button to select the correct date. Confirm with the °F/°C button and exit the program menu. @@@@@@@The weather forecast is about 70-75% correct. @@THIS STATION LEARNS! @@@@@@@When the indicator points right the pressure is holding steady. @@This is forecasting the next 12 hours in the future. @@@@@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 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 Atomic Digital Wall Clock and under an overhang for accuracy. Option 1: Install one mounting screw (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. @@ Tighten the screw to snug (do not over tighten). @@@@Under an eave or deck rail work well. @@@@@@@Collin Colorado for best WWVB reception. The Digital Wall Clock should be six feet from other electronics or wireless devices in order to best receive the outdoor temperature transmitter signal.*

Foldout Table Stand: A foldout table stand is located on the back of the clock. Pull the stand out from the bottom center edge of the Digital Wall Clock, below the battery compartment. Once the foldout table stand is extended, place the Digital Wall Clock in an appropriate location. The Digital Wall Clock is not to be used for medical purpose or for public information, but is determined for home use only. The specifications of this Digital Wall Clock may change without prior notice. Improper use or unauthorized opening of housing will void the warranty. If the Digital Wall Clock does not work properly, change the batteries. @@@@@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. @@@@@Install three mounting screws (not included) into a wall within transmission range— leaving approximately 3/16 of an inch (5mm) extended from the wall. Place the Digital Wall Clock onto the screws, using the hanging holes on the backside.

Gently pull the Digital Wall Clock down to lock the screws into place. Note: Always ensure that the Digital Wall Clock locks onto the screws before releasing. CARE AND MAINTENANCE: ☐ Do Not Mix Old and New Batteries ☐ Do Not Mix Alkaline, Standard, Lithium or Rechargeable Batteries ☐ Do not expose the Digital Wall Clock to extreme temperatures, vibration or shock. ☐ Keep Digital Wall Clock dry. ☐ Clean Digital Wall Clock with a soft damp cloth. Do not use solvents or scouring agents. ☐ The Digital Wall Clock is not a toy. Keep it out of reach of children. Printed in China 2 .