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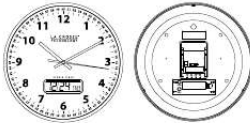
You can read the recommendations in the user guide, the technical guide or the installation guide for LA CROSSE TECHNOLOGY WT-3128U. You'll find the answers to all your questions on the LA CROSSE TECHNOLOGY WT-3128U in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

## User manual LA CROSSE TECHNOLOGY WT-3128U User guide LA CROSSE TECHNOLOGY WT-3128U Operating instructions LA CROSSE TECHNOLOGY WT-3128U Instructions for use LA CROSSE TECHNOLOGY WT-3128U Instruction manual LA CROSSE TECHNOLOGY WT-3128U

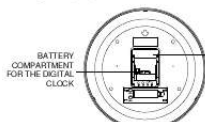


Model WT-3128  
Radio Controlled Analog Clock  
Quick Setup Instructions

Welcome to the world of atomic timekeeping technology. We hope you will enjoy the convenience of never having to set your clock again and the confidence of knowing exactly what time it is.



- INITIAL SETUP**
- Insert 1 new AA, LR6 1.5 volt ALKALINE battery into the digital clock battery compartment (the lower battery compartment) according to the polarity marked on the case.
  - Insert 1 new battery AA, LR6 1.5 V into the analog clock battery compartment according to the polarity marked on the case.



- Once the battery is installed, the clock will begin searching for a signal. For the initial setting, it is recommended to stand the clock in an upright position near a window. Within five minutes the clock will either receive the WWVB signal and set itself to the exact time (for the default Pacific Time Zone), or it will determine that the signal is not receivable at its current location and time of day. The clock will lock forward the hands to the 4, 8, or 12 o'clock position immediately and search for WWVB at a specific time until a signal is received.

- Note:** If the time is manually set, the clock will continue to periodically search for a signal and automatically reset the hands when the signal is received.
- Once the clock has received the WWVB signal, press the time zone button to select your time zone. If you are in the Pacific Time Zone, no change is needed and you are ready to hang your clock.

If you are not in the Pacific Time Zone, select your time zone by pressing one of the four time zone buttons: PT Pacific Time, MT Mountain Time, CT Central Time, ET Eastern Time and holding this button down for 5 seconds. If multiple buttons are pressed, the clock will set to the time zone selected last. If no time zone is selected the clock will default to Pacific Time. If you live in an area that does not

recognize DST (Arizona) you must press the DST button (unmarked - just above and between the Central and Eastern time zone buttons) for one second to deactivate your clock's DST program.  
For time zones outside of PT, MT, CT or ET you must manually set the time using the Manual Time set button on the back of the movement. (See instructions below).

**Please Note:** WWVB time will override a manual setting.

**ADDITIONAL DETAILS**  
For a better understanding of how and why your clock works please continue reading.

**NOTHING IS MORE PRECISELY MEASURED THAN TIME!**  
And nothing keeps track of time more precisely and trouble free than La Crosse Technology's atomic clocks.

Since the beginning of time, man has been fascinated with the measurement of time and has devised more accurate machines to measure time. Today, time is precisely measured in the United States by the most accurate clock in North America, the Atomic Clock of the US National Institute of Standards and Technology, Time and Frequency Division in Boulder, Colorado. A team of atomic physicists continually measures every second of every day to an accuracy of ten billionths of a second per day. These physicists have created an international standard, measuring a second as 9,192,631,770 vibrations of a Cesium 133 atom in a vacuum. This atomic clock regulates the WWVB radio transmitter located in Fort Collins, Colorado. From there the exact time signal is continuously broadcasted throughout the United States at 60 kHz to take advantage of stable long wave radio paths found in that frequency range. Radio waves at these low frequencies use the earth and the ionosphere as a wave guide and follow the curvature of the earth for long distances.

The built in antenna system in your clock will receive the WWVB signal anywhere in North America within 2000 miles of Fort Collins where long wave radio reception is undisturbed. A microprocessor activates the receiver and processes the time signal from Fort Collins overnight.

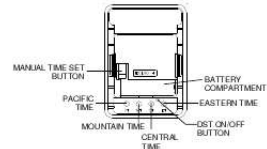
Through the radio signals, La Crosse Technology's atomic clocks always keep precise time. The changeover from standard time to daylight saving time, and vice versa, takes place automatically with the same precision.

- The La Crosse Technology's atomic clock is designed for indoor use.
- For indoor locations, select a location to place your radio controlled clock where it will be at least six feet away from a TV, computer, air conditioner or other household electrical appliances.
- The optimal location is near a window. Windows facing Colorado provide the best signal.
- Do not submerge clock in water.
- Extreme temperatures, vibration, and shock should be avoided to prevent damage to the clock.
- The WWVB time signal will easily penetrate masonry and wood framed buildings.
- The WWVB signal will penetrate almost every residential building and most steel buildings if they have adequate windows. It is not possible, however, for the WWVB signal to penetrate most indoor shopping malls and rooms in the center of large office buildings that do not have windows.
- In buildings that WWVB cannot penetrate you may set the time using the manual time set button. When the clock receives the WWVB signal it will automatically set the hands to the exact time.

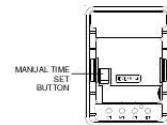
La Crosse Technology's atomic clocks do not receive or process radio controlled time signals from Germany's DCF 77, Japan's JJG AA5, or England's MSF's atomically regulated transmitters. La Crosse Technology's atomic clocks can be manually set and used anywhere.

**Please Note:** WWVB time will override a manual setting.

For more information on the NIST and radio controlled time, see [www.nist.gov/time/](http://www.nist.gov/time/).



**TO SET THE TIME USING THE MANUAL TIME SET BUTTON**  
In some cases, the La Crosse Technology's atomic clock may not receive the WWVB signal due to atmospheric disturbances or hard to reach locations such as inside shopping malls. In this case, please use the Manual Time Set button, located at the back of the clock to manually set the time. To do this:



- Remove the battery and press the Manual set button 10 times.
- Insert 1 new AA Alkaline battery.
- Press and hold the Manual Set button until the second hand of the clock moves to the 12 o'clock position.
- Release the Manual Set button and again press and hold the Manual Set button. The minute and hour hands will fast forward while the button is held.
- Keep holding the Manual Set button until the time is set as required.
- Release the button. About 3 seconds later, the second hands will start to move and the clock is now running with manual time.

**Note:** When the clock displays manual time, it will continue to try to receive the WWVB signal at each of the even numbered hours: 0:00, 2:00, 4:00, 6:00 ... 20:00 & 22:00.

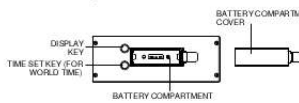
### DIGITAL CLOCK

- Remove the battery cover at the back of the clock and insert 1 AA Alkaline battery in the battery compartment.

All segments of the LCD will light up briefly, then the display "--:--" and the current indoor temperature will be displayed.

**Note:** If the Display time is pressed while the analog clock is still searching for the WWVB signal, the digital clock will display "--:--" for the date and "--:--" for the world time.

- Wait for the digital clock to receive the WWVB time and date from the analog clock. Then the digital clock will start normal run.



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**Manual abstract:**

For time zones outside of PT, MT, CT or ET you must manually set the time using the Manual Time set button on the back of the movement. (See instructions below). Please Note: WWVB time will override a manual setting. MANUAL TIME SET BUTTON PACIFIC TIME MOUNTAIN TIME CENTRAL TIME BATTERY COMPARTMENT EASTERN TIME DST ON/OFF BUTTON Model WT-3128 ADDITIONAL DETAILS For a better understanding of how and why your clock works please continue reading. NOTHING IS MORE PRECISELY MEASURED THAN TIME! And nothing keeps track of time more precisely and trouble free than La Crosse Technology® atomic clocks. Since the beginning of time, man has been fascinated with the measurement of time and has devised more accurate machines to measure time. Today, time is precisely measured in the United States by the most accurate clock in North America, the Atomic Clock of the US National Institute of Standards and Technology, Time and Frequency Division in Boulder, Colorado. A team of atomic physicists continually measures every second of every day to an accuracy of ten billionths of a second per day. These physicists have created an international standard, measuring a second as 9,192,631,770 vibrations of a Cesium 133 atom in a vacuum. This atomic clock regulates the WWVB radio transmitter located in Fort Collins, Colorado.

From here the exact time signal is continuously broadcasted throughout the United States at 60 kHz to take advantage of stable long wave radio paths found in that frequency range. @@@@The changeover from standard time to daylight saving time, and vice versa, takes place automatically with the same precision. Radio Controlled Analog Clock Quick Setup Instructions Welcome to the world of atomic timekeeping technology. We hope you will enjoy the convenience of never having to set your clock again and the confidence of knowing exactly what time it is. TO SET THE TIME USING THE MANUAL TIME SET BUTTON In some cases, the La Crosse Technology® atomic clock may not receive the WWVB signal due to atmospheric disturbances or hard to reach locations such as inside shopping malls.

In this case, please use the Manual Time Set button, located at the back of the clock to manually set the time. To do this: MANUAL TIME SET BUTTON INITIAL SETUP Insert 1 new AA, LR6 1.5 volt ALKALINE battery into the digital clock battery compartment (the lower battery compartment) according to the polarity marked on the case. Insert 1 new battery AA, LR6 1.5 V into the analog clock battery compartment according to the polarity marked on the case. The La Crosse Technology® atomic clock is designed for indoor use. For indoor locations, select a location to place your radio controlled clock where it will be at least six feet away from a TV, computer, air conditioner or other household electrical appliances. The optimal location is near a window. Windows facing Colorado provide the best signal. Do not submerge clock in water. Extreme temperatures, vibration, and shock should be avoided to prevent damage to the clock. The WWVB time signal will easily penetrate masonry and wood framed buildings. The WWVB signal will penetrate almost every residential building and most steel buildings if they have adequate windows. It is not possible, however, for the WWVB signal to penetrate most indoor shopping malls and rooms in the center of large office buildings that do not have windows. In buildings that WWVB cannot penetrate you may set the time using the manual time set button.

When the clock receives the WWVB signal it will automatically set the hands to the exact time. 1. 2. 3. 4. 5. @@Insert 1 new AA Alkaline battery. @@@@The minute and hour hands will fast-forward while the button is held. Keep holding the Manual Set button until the time is set as required. Release the button.

@@20:00 & 22:00. DIGITAL CLOCK 1. 2. @@@@3. @@@@Please Note: WWVB time will override a manual setting. @@@@If no time zone is selected the clock will default to Pacific Time. @@It will receive the WWVB time from the analog clock. The time format is fixed to "12-hr" time display. "PM" will be shown in hours from noon to midnight. @@@@Will the digital World Time display also set ahead or back one hour for DST? A.

Yes, if you have DST set to "ON". (By default DST is set to "ON".) If the digital World Time display is set to a foreign time zone for a country that has not adopted the same DST dates, you will need to manually set the LCD. Q. How long will the battery last? A. A good AA alkaline battery will last over one year. If your clock is located in an area with little interference where it can quickly receive a signal the battery can last much longer than one year. Q. Can this La Crosse Technology® clock be used outdoors? A. No.

Outdoor use is not recommended for this clock. Q. Can the La Crosse Technology® atomic clock be wired to control timing circuits? A. No. 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. WORLD TIME SETTING: This feature allows you to display a 2nd time from anywhere in the world. The world time can be manually adjusted by 1 hour increments (24 hour time zone).

1. 2. Press the Time Set key to enter world time setting. Press the Time Set key again to set the desired world time. Each key press will increase the world time by 1 hour.

Notes: Once the WWVB signal has been received by the digital clock, the manually adjusted world time will be updated. @@@@If the clock receives a clear signal it will set itself perfectly.



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*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/support](http://www.lacrossetechnology.com/support) Le manuel d'instruction complet est disponible sur: [www.lacrossetechnology.com/support](http://www.lacrossetechnology.com/support) El manual de instrucciones completo está disponible en: [www.lacrossetechnology.com/support](http://www.lacrossetechnology.com/support) If it does not receive a signal consider the following: Battery Location The La Crosse Technology® atomic clock must have a fresh battery to receive and process the time signal.*

*Try a different location, ideally near a window. It should be at least six feet from computers, TVs, air conditioners, other atomic clocks and other electrical appliances that cause interference. Electrical storms between you and Colorado can interfere with the WWVB signal. CHANGING THE DISPLAY MODE (Indoor Temperature, Date, Weekday, World Time, Seconds) There are 4 possible display modes to view the indoor, month & day, weekday, world time, seconds. The month & day / indoor temperature is the default display. Weather The clock seems to "take off", or the hands start to spin, for no apparent reason and then stop. It is not uncommon for th LOW BATTERY ICON When the battery of the digital clock needs to be replaced, the low battery icon will appear on the LCD section of the digital clock. DAYLIGHT SAVING TIME The National Institute of Standards and Technology and WWVB encode a special DST "bit" in the WWVB transmission for DST. Your La Crosse Technology® clock will read this information and automatically advance the hands one hour in the spring and eleven hours (to go back one hour) in the fall. 2 .*



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