



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for LA CROSSE TECHNOLOGY WT-8029U. You'll find the answers to all your questions on the LA CROSSE TECHNOLOGY WT-8029U 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-8029U**  
**User guide LA CROSSE TECHNOLOGY WT-8029U**  
**Operating instructions LA CROSSE TECHNOLOGY WT-8029U**  
**Instructions for use LA CROSSE TECHNOLOGY WT-8029U**  
**Instruction manual LA CROSSE TECHNOLOGY WT-8029U**

**WT-8029U**  
**RADIO-CONTROLLED SOLAR CLOCK**  
**INSTRUCTION MANUAL**

**Contents**

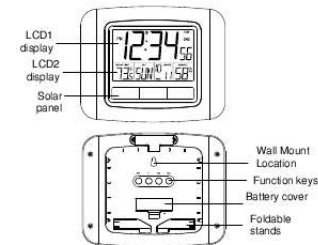
Languages	Page
<i>English</i>	2
<i>French</i>	18
<i>Spanish</i>	36

**TABLE OF CONTENTS**

Topic	Page
Features	3
Battery installation	3
Setting Up	5
Atomic time - WWVB Radio Controlled Time	5
Function keys	6
LCD Screen	7
Manual Settings	7
Alarm setting and snooze	11
Mounting	12
Care and maintenance	14
Specifications	15
Warranty	16

**FEATURES:**

**RADIO-CONTROLLED SOLAR CLOCK:**



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**Manual abstract:**

If your battery needs to be replaced, we suggest you use a fully charged AA Alkaline. Rechargeable batteries should be fully charged before inserting into clock. Alkaline rechargeable batteries are recommended. If you choose to use a non-rechargeable battery, the battery switch **MUST** be moved to the BATTERY position (not the SOLAR position). In this position, the solar cells do not charge the battery. **REGARDLESS OF THE TYPE OF BATTERY INSTALLED, THE BATTERY SWITCH MUST BE IN THE BATTERY POSITION WHEN THE BATTERY IS INSERTED.** If a rechargeable battery is used, the Battery switch should be moved to the SOLAR position AFTER it is has been inserted. **TO INSTALL / REPLACE BATTERY** The solar clock can use either the included 1 x alkaline rechargeable battery (charged by solar panel) or 1 x AA alkaline battery (non-rechargeable; not included). To use the included rechargeable Alkaline battery (charged by solar panel): 1. It is important to allow sufficient light to reach the solar panel while activating the solar clock. Make sure the lights are on in the setup room and the solar panel is facing a 60W light bulb or brighter - do not cover with hands or other objects. Replace battery cover Remove the black protective foil on the solar panel. **DO NOT SET THE CLOCK. INITIAL SETUP** It is very important to follow these steps: 1. 2.

@@@ Battery switch in the BATTERY position 3. 4. 5. 6. Now locate the battery insulator tab, and gently pull to remove it.

@@2. Remove the included rechargeable AA battery from the compartment. @@ This reception typically takes 10 minutes in good conditions. If after 10 minutes the WWVB time has not been received, use the "SET" key to enter the set-up mode to manually set the Time, Time Zone and Date (see manual settings below). The clock will continue to search for WWVB each hour between 12am and 6am. When the clock has successfully connected with WWVB, it will override the manually set time and date. Note: When changing the battery: 1. Be careful that it does not spring free from the contacts. 2. Press any button 20 times with the battery removed.

3. Always wait at least 10 minutes after removing battery before re-inserting; otherwise start up problems may occur. Primary Alkaline battery switch position 3. Rechargeable Alkaline battery switch position 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 clock. However, due to the nature of the Earth's Ionosphere, reception is very limited during daylight hours. The atomic 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.

A team of atomic physicists continually measures every second of every day to an accuracy of ten billionths of a second a 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 transmitter. After 15 minutes the WWVB tower icon in the clock display will start flashing in the top center of the LCD. This indicates the clock has detected a radio signal and is trying to receive it. When the time code is received, the WWVB tower becomes permanently lit and the time will be displayed.

4. Insert 1 x AA Alkaline battery into the compartment, observing the correct polarity (see marking inside battery compartment. Replace battery cover **DO NOT SET THE CLOCK.** Note: For best performance, batteries should be replaced at least once every 2 years to maintain the best running accuracy. Ensure that the batteries used are new and the correct size.

Please help in the preservation of the environment and return used batteries to an authorized depot. **SETUP AFTER CHANGING/REPLACING THE BATTERY** 1. After powering up the solar clock, all LCD segments will light up briefly and it will show the time (12:00), indoor temperature, date, and indoor humidity. 5 6 If the tower icon flashes, but does not set the time or the WWVB tower does not appear at all, then please take note of the following:

Recommended distance to any interfering sources like computer monitors or TV sets is a minimum of 6 feet (2 meters). Within ferro-concrete rooms (basements, superstructures), the received signal is naturally weakened. In extreme cases, please place the unit close to a window and/ or point its front or back towards the Fort Collins, Colorado, transmitter. During nighttime, the atmospheric disturbances are usually less severe and reception is possible in most cases. A single daily reception is adequate to keep the accuracy deviation below 1 second. briefly before displaying the information for time, date, indoor temperature and indoor humidity. Radio reception icon Alarm icon WWVB time Low battery icon (clock) Indoor temperature Weekday Date Indoor humidity display Note: In case the solar atomic clock is not able to detect the WWVB-signal (disturbances, transmitting distance, etc.

), the time can be manually set (please refer to notes on Manual time setting). **MANUAL SETTINGS** Note: If the radio-controlled clock has already successfully received the WWVB time signal and displays the correct time and date, then the Manual settings can be skipped. After completion of the above described procedures in "Setting-up" the manual setting modes can be entered by pressing the SET key. The following settings can now be programmed: Time zone setting DST ON/OFF Language display setting Manual time setting Year setting Month setting Date setting Weekday setting 12/24h time format display °F/°C temperature setting Solar mode setting **FUNCTION KEYS** The radio-controlled clock has four easy to use keys: SET key : To enter into the set mode for the following functions: time zone, DST ON/OFF (daylight saving time), language, hour, minute, year, month, date, weekday, 12/24h time format display, °F/°C temperature unit, and solar mode To change any values in manual set mode To enter into the alarm set mode To activate/deactivate the alarm To activate the snooze function during alarm To exit manual setting modes + key ALM key SNZ key : : : LCD SCREEN DESCRIPTIONS The radio-controlled clock's LCD is divided into 2 sections and once the batteries are inserted, all the segments will light up 7 8 **TIME ZONE** The time zone can be set between the +/-12 hour range in LCD2. To do this: 1. The time zone (LCD2) will start flashing (Default setting "EST -5"). Select the desired time zone by pressing and releasing the + key. Time zone settings: -12, -11, -10, ALA, PST, MST, CST, EST, ATL, -3, -2, -1, 0, +1, +2...

+12. (Default: EST) 2. Press and release the SET key to enter the "DST Setting". The ON digit will start flashing on LCD1.



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Set the DST ON or OFF by pressing the + key.

During reception attempts the WWVB tower icon will flash. The hour digits will start flashing on LCD1. The minute digits will start flashing. Set the desired minutes by pressing and releasing the + key. If the + key is held, the units will increase by 5. The year will only appear in the manual setting mode. 1. The year digits will start flashing (only last 2 digits) on LCD2. Select the desired year by use of the + key. 2.

The month digit on LCD2 will start flashing (Default setting 1). Set the desired month by use of the + key. Set the desired date by use of the + key. Press and release the SET key to move to "Weekday setting". Set the desired weekday by use of the + key. Press and release the SET key to enter the mode "12/24h Time Format Setting". SOLAR MODE The Solar Mode is used for saving the power consumption of the rechargeable battery (Default setting ON): 1. The characters "ON" or "OFF" will start flashing on LCD1. By use of the + key select "ON" or "OFF" to set the solar mode. Press and release the SET key before obtaining reliable data. There are two possible ways to mount the solar clock: use of the foldable table stands, or wall mounting Problem: Solution: 13 14 Problem: Solution: Problem: Solution: 3) Be sure the radio-controlled clock is at least 6 feet (2 meters) from any electrical devices, i.e. TV sets, computers, or other radio controlled clocks. 4) Remove batteries for five minutes, reinsert and leave the unit alone overnight without pressing any keys.

Hour is incorrect (minute and date are correct). 1) Be sure the correct time zone and daylight saving time is selected. "OFL" appears in the indoor temperature section of the LCD 1) Move the radio-controlled clock to an area with warmer or cooler surrounding temperature. Current surrounding temperatures are outside measuring range. Batteries. "00" appears in the in humidity section of the LCD. 1) Remove the battery from the unit for ten minutes, Press any button 20 times with battery out then reinsert it again. Avoid areas where the unit can be exposed to sudden changes in temperature, i.e. direct sunlight, extreme cold and wet/moist conditions as these will lead to rapid changes which reduce the accuracy of readings. When cleaning the LCD and casing, use a soft damp cloth only. Do not use solvents or scouring agents. Do not submerge the unit into water. Immediately remove all low powered batteries to avoid leakage and damage. Replace only with new battery of the recommended size.

Do not make any repairs to the unit. Please return it to the original point of purchase. Opening and tampering with the unit may invalidate the warranty. SPECIFICATIONS: Temperature measuring range Indoor : 14.1F to 139.8F with 0.2F resolution (-9.9C to +59.9C with 0.1C resolution; "OFL" displayed if outside this range) Temperature checking interval Indoor : every 60 seconds Humidity measuring range Indoor : 20% to 95% with 1% resolution ("-" displayed if temperature is OFL; "19%" displayed if below 20%, "96%" displayed if above 95%) Temperature checking interval Indoor : every 60 seconds Power consumption Alkaline rechargeable Battery : 1 x AA, 1.

5V (included), rechargeable by solar cell Rechargeable Alkaline battery life : 18 60 months, depending on usage Primary Alkaline battery : 1 x AA, 1.5V battery (not included) Primary Alkaline battery life : about 24 months Dimensions (H x L x W) Solar clock : 8.93" x 1.18" x 7.16" / 227 x 30 x 182mm Problem: Solution: The clock appears to be locked up or displays partial segments.

Remove the battery, slide the battery switch to BATTERY and reinsert the the battery. If you are using a rechargeable battery, you can then slide the battery switch to SOLAR. CARE AND MAINTENANCE: Avoid placing the unit in areas prone to vibration and shock as these may cause damage. 15 16 Low battery indicator: RX - Low battery indicator is displayed on the LCD when the battery voltage is low. 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: 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. 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 La Crosse Technology 2817 Losey Blvd.

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17 18 .



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