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You can read the recommendations in the user guide, the technical guide or the installation guide for LA CROSSE TECHNOLOGY WS-8248U-AL. You'll find the answers to all your questions on the LA CROSSE TECHNOLOGY WS-8248U-AL in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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WS-8248 ATOMIC CLOCK WITH INDOOR TEMP/HUMIDITY AND OUTDOOR TEMPERATURE

Instruction Manual

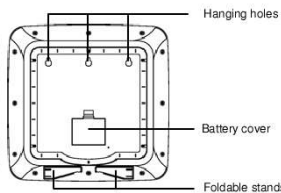
FEATURES:

ATOMIC CLOCK:

LCD1 display

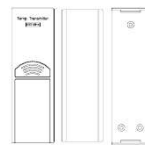
LCD2 display

Function keys



- WWVB Radio controlled time with manual time setting
- Time display: hour, minute, second
- Alarm setting with snooze function
- Complete calendar display
- Weekday display (3 languages to choose from: English, French and Spanish)
- Time zone setting
- Daylight savings time ON/OFF option (DST)
- Indoor temperature and humidity display
- Outdoor temperature display via 433MHz transmission
- Wall mount or freestanding
- Current moon phase display

OUTDOOR TEMPERATURE TRANSMITTER:



— Mounting Bracket

- Remote transmission of outdoor temperature to the atomic clock by 433 MHz signals
- Wall mounting case

TO INSTALL AND REPLACE BATTERIES IN THE TEMPERATURE TRANSMITTER

The transmitter uses 2 x AA, 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 inside battery compartment).
3. Replace the battery cover on the unit.

Alkaline batteries are recommended for use in both units. Avoid using rechargeable batteries.

TO INSTALL AND REPLACE BATTERIES IN THE ATOMIC CLOCK

The atomic clock uses 3 x AA, 1.5V batteries. To install and replace the batteries, please follow the steps below:

1. Pull down on the tab at the top of the battery cover and lift up to remove the cover.
2. Insert batteries observing the correct polarity (see marking inside battery compartment).
3. Replace compartment cover.

DO NOT SET THE CLOCK.

SETTING UP:



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Manual abstract:

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 inside battery compartment). 3. Replace the battery cover on the unit. Alkaline batteries are recommended for use in both units. Avoid using rechargeable batteries. Foldable stands WWVB Radio controlled time with manual time setting Time display: hour, minute, second Alarm setting with snooze function Complete calendar display Weekday display (3 languages to choose from: English, French and Spanish) Time zone setting Daylight savings time ON/OFF option (DST) Indoor temperature and humidity display Outdoor temperature display via 433MHz transmission Wall mount or freestanding Current moon phase display TO INSTALL AND REPLACE BATTERIES IN THE ATOMIC CLOCK The atomic clock uses 3 x AA, 1.

5V batteries. To install and replace the batteries, please follow the steps below: 1. Pull down on the tab at the top of the battery cover and lift up to remove the cover. 2. Insert batteries observing the correct polarity (see marking inside battery compartment).

3. Replace compartment cover. DO NOT SET THE CLOCK. SETTING UP: Alkaline batteries are recommended for use in both units. Avoid using rechargeable batteries.

NOTE: Do not set the clock until the outdoor temperature is displayed. 1. Place batteries in the outdoor transmitter first, then into the atomic clock. DO NOT PRESS ANY BUTTONS FOR 15 MINUTES. 2. @@@@3. @@@@If after 15 minutes the WWVB time has not been received, use the "SET" key to manually enter the set-up mode and change either the time or date in order to activate the WWVB reception (see manual settings below). The clock will then automatically attempt to receive the WWVB time from 12:00 am through 6:00 am each day (attempts WWVB reception every full hour within this time frame). When this is successful, the received time will override the manually set time. The date is also updated with the received time (Please refer to notes on "Radio controlled time" and "Manual time setting").

4. After the time signal has been received or the search mode has been manually stopped the indoor temperature will be displayed. Note: When changing batteries in either of the units, ensure that the batteries do not spring free from the contacts. Always wait at least 15 minutes after removing the batteries before reinserting, otherwise start up and transmission problems may occur. SNZE key : To set the alarm ON/OFF To display the alarm time in normal mode display To exit the setting modes To activate the snooze function during alarm ATOMIC CLOCK LCD SCREEN DESCRIPTIONS The atomic clock's LCD is divided into 2 sections and once the batteries are inserted, all the segments will light up briefly before displaying the information for time, date, indoor and outdoor temperatures and indoor humidity. Radio reception icon WWVB time FUNCTION KEYS The atomic clock has four easy to use keys: SET key : To enter into the set mode for the following functions: LCD contrast, time zone, DST ON/OFF (daylight saving time), radio-controlled time ON/OFF, language, hour, minute, year, month and date. + key : To toggle between the seconds display options To change any values in manual set mode ALM key : To enter into the alarm set mode Indoor humidity and temperature Outdoor temperature Alarm icon Month Moon Phase Date MANUAL SETTINGS Note: Weekday If the atomic 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 and holding the SET key for 5 seconds.

The following settings can now be programmed: Default (Factory) Setting 4 -5 (Eastern Standard Time) ON ON ENG (English) 12 (hour), 00 (minute) 2004 Jan (January) 1 TIME ZONE SETTING The time zone can be set between the 1 to 12 hour or Greenwich Mean Time (GMT) range. 1. The time zone will start flashing (Default setting "-5h") in the lower LCD display. LCD contrast setting Time zone setting DST ON/OFF Radio-controlled time ON/OFF Language display setting Manual time setting (Hour then Minute) Year setting Month setting Date setting 2. 3. Press and release the + key to select the desired time zone. Press and release the SET key to confirm the time zone setting and continue to the DST (Daylight Saving Time) setting.

LCD CONTRAST SETTING After entering the manual setting mode as described above, the LCD contrast can be set between 0 and 7. 1. 2. Press and hold the SET key for 5 seconds. LCD will be displayed in the lower display and a number will flash to the right of the word LCD.

Note: The time zones from 4 to 10 hours will be displayed with 3 characters abbreviations: ·-4 ATL (Atlantic time), ·-5 EST (Eastern time; default time zone), ·-6 CST (Central time), ·-7 MST (Mountain time), ·-8 PST (Pacific time), ·-9 ALA (Alaska time), ·-10 HAW (Hawaii time). · "GMT" will be displayed if set to GMT (0). 3. 4. Press and release the + key to select the desired LCD contrast. Press and release the SET key to confirm the LCD contrast and continue to the Time Zone setting. DST SETTING (daylight saving time) 1. The word ON will start flashing in the lower LCD display. 2. 3.

Press and release the + key to select DST ON or OFF. Press and release the SET key to confirm the DST setting and continue to the Radio-controlled time setting. Note: The DST default is "ON", meaning that the WWVB will automatically change the time according to Daylight Saving Time in the spring and fall. For areas that do not recognize DST changes (Arizona and parts of Indiana) turn the DST "OFF". RADIO-CONTROLLED TIME SETTING 1. The word ON will start flashing in the lower LCD display. 2. 3. Press and release the + key to select the desired language. Press and release the SET key to confirm the language setting and enter the Manual Time setting mode.

MANUAL TIME SETTING In case the atomic clock is not able to detect the WWVB-signal (disturbances, transmitting distance, etc.), the time can be manually set. The clock will then work as a normal Quartz clock. 1. 2.

3. 4. 5. 6. The hour digits will start flashing in the upper LCD.

Select the desired hours by pressing and releasing the + key. Press and release the SET key to advance to the minutes setting. Now the minute digits will start flashing. Select the desired minutes by pressing and releasing the + key. If the + key is held, the units will increase by 5. Press and release the SET key to confirm the Time setting and continue to the Year setting.



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2. 3. Press and release the + key to select radio-controlled time ON or OFF. Press and release the SET key to confirm the radio-controlled time setting and continue to the Language setting.

Note: Turn off the radio-controlled time feature only if you DO NOT want the clock to automatically update itself. LANGUAGE SETTING The weekdays can be displayed in LCD2 with the pre-set languages: US English (ENG), French (FRA) and Spanish (ESP). 1. LAN will be displayed in the lower LCD along with one of the three letter language abbreviations. Note: The unit will still try to receive the signal every day despite it being manually set. When it does receive the signal, it will change the manually set time into the received time. During reception attempts the WWVB tower icon will flash. If reception has been unsuccessful, then the WWVB tower icon will not appear but reception will still be attempted the following hour. WWVB time reception takes place from 12:00 am through 6:00 am each day (attempts WWVB reception every full hour within this time frame). When the time signal is received for example at 1:00 am, the atomic clock will not attempt to receive the WWVB signal for the remaining hours until 6:00 am.

Therefore, the next signal attempt will take place between 12:00 am and 6:00 am the next day. The other times WWVB reception takes place, are upon setup and after manual time set exiting mode. Reception is generally not possible during daylight hours due to the interference of the sun. YEAR SETTING The year can be selected sequentially from 2003 to 2029 and will then start over again (default setting 2004). None of the digits of the year will be visible on the lower LCD display however the year must be correct as it affects the day of the week display.

1. The year digits will start flashing in the lower LCD. 2. Press and release the + key to select the desired year. 3.

Press and release the SET key to confirm the Year setting and continue to the Month setting. To enter into the alarm setting mode: 1. Hold the ALM key for 5 seconds. The hour digits start flashing. 2. Press and release the + key to set the hour. 3. Press and release the ALM key to continue to the minutesetting. 4. The minute digits start flashing.

5. Press and release the + key to set the minutes. 6. Press and release the ALM key to exit the Alarm setting mode or wait for 15 seconds for the clock to automatically timeout and return to the standard display mode. TO DEACTIVATE THE ALARM: Alarm icon ((:)) (ON) MONTH SETTING 1. 2. 3. The month digits on LCD2 will start flashing. Press and release the + key to select the desired month. Press and release the SET key to confirm the Month setting and continue to the Date setting.

DATE SETTING 1. The digits for the date will start flashing in the lower LCD (Default setting 1). 2. Press and release the + key to select the desired date. 3. Press and release the SET key to confirm the Date setting and exit the manual setting mode. Note: The date can only be set in conjunction with the selected month. For example, it is not possible to set the date 30 if the month of February is selected. The alarm will be automatically switched ON when the alarm time is set. To deactivate the alarm (OFF), press and release once the ALM key in normal mode display.

The alarm icon will disappear, the alarm is now off. SNOOZE SETTING The snooze can only be activated during alarm time for a snooze duration of 10 minutes by pressing the SNZ key on the back of the clock. EXIT THE MANUAL SETTING MODES · · OUTDOOR TEMPERATURE TRANSMITTER: The temperature is measured and transmitted to the atomic clock every 1 minute. The atomic clock will update the temperature display every 5 minutes. @@@@At cold temperatures the transmitting distance may be decreased. Please bear this in mind when positioning the transmitter. @@@@2. @@@3. Using other electrical products such as headphones or speakers operating on the same signal frequency (433MHz) may prevent correct signal transmission and reception. Large Waxing Gibbous Full Moon Large Waning Gibbous Small Waning Gibbous Last Quarter Large Waning Crescent Small Waning Crescent POSITIONING Before permanently mounting ensure that the atomic clock is able to receive WWVB signals from the desired location. @@@@The maximum transmitting range is 330 feet (100 meters).

@@@2) Place the mounting bracket over the desired location. @@3) Where marked, start the screw holes into mounting surface. 4) Screw mounting bracket onto the mounting surface. @@@@The mounting surface should be smooth and flat. 2) Remove the protective strip from one side of the tape. @@3) Remove the protective strip from the other side of the tape. @@@@Gently pull the atomic clock down to lock the screws into place.

@@1) Replace the batteries. No reception of WWVB signal 1) It may help reception to face the front of the atomic clock in the general direction of Ft. Collins, Colorado.

2) Wait overnight for signal. Problem: Solution: Problem: Solution: Problem: Solution: Problem: Solution: 3) Be sure the atomic 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 are selected. "OFL" appears in the indoor temperature section of the LCD 1) Move the atomic clock to an area with warmer or cooler surrounding temperature. Current surrounding temperatures are outside measuring range. "--.

-" appears in the outdoor temperature section of the LCD. 1) Remove the batteries of both units for one minute, then reinsert them again. Make sure the batteries are new and fresh. 2) Move the atomic clock closer to the transmitter or place the transmitter closer to the atomic clock. Make sure the clock is at a receivable range from the transmitter. 3) Move the units to another location. Interferences from other electrical devices operating on the same signal frequency (433MHz) may prevent correct signal transmission and reception. "OFL" appears in the outdoor temperature section of the LCD. 1) Wait until the current surrounding temperature cools down or increases. Current temperature is outside of the measuring range of the transmitter.

The outdoor temperature will be displayed again once the current surrounding temperature is within the range of the transmitter. · Immediately remove all low powered batteries to avoid leakage and damage. Replace only with new batteries of the recommended size. · Do not make any repairs to the units. Please return it to the original point of purchase. Opening and tampering with the units may invalidate the warranty. SPECIFICATIONS: Temperature measuring range Indoor: +14.1°F to +99.8°F with 0.2°F resolution -9.

9°C to +37.6°C with 0.



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1°C resolution ("OFL" displayed if outside this range) Outdoor : -21.8°F to +157.8°F with 0.

2°F resolution -29.9°C to +69.9°C with 0.1°C resolution ("OFL" displayed if outside this range) Temperature checking interval Indoor: every 10 seconds

Outdoor: every 5 minutes Humidity measuring range Indoor: 1-99% Transmission distance: maximum 330 feet (100 meters) in open field Power source

(Alkaline batteries recommended) Atomic clock : 3 x AA, 1.5V batteries Transmitter: 2 x AA, 1.

5V batteries Battery life: about 12 months Dimensions (H x W x D) Atomic clock: 11.75" x 12" x 1.25" / 299 x 305 x 32 mm Transmitter: 5.04" x 1.57" x 0.9" /

128 x 40 x 23 mm CARE AND MAINTENANCE: · Avoid placing the units in areas prone to vibration and shock as these may cause damage. · Avoid areas

where the units 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 reduces 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 units into water. LIABILITY DISCLAIMER: · The manufacturer and supplier cannot accept any

responsibility for any incorrect readings and any consequences that occur should an inaccurate reading take place. · This product is only designed for use in

the home or office. · This product is not to be used for medical purposes or for public information. · The specifications of this product may change without

prior notice. · This product is not a toy. Keep out of the reach of children. · No part of this manual may be reproduced without written authorization of the

manufacturer. BATTERIES CHANGE: For best performance, batteries should be replaced at least once a year 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. 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 your La Crosse Technology, Ltd product to a La Crosse Technology, Ltd authorized service

center. La Crosse Technology, Ltd will pay reasonable return shipping charges to the owner of the product. 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 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. WARRANTY

INFORMATION La Crosse Technology, Ltd provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

@@@You may also have other rights specific to your State. @@@@S. La Crosse, WI 54601 Phone: 608.782.1610 Fax: 608.796.1020 e-mail:

support@lacrossetechnology.com (warranty work) sales@lacrossetechnology.com (information on other products) web: www.lacrossetechnology.

com FCC ID: OMO-01RX (receiver) OMO-01TX (transmitter) 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

INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION. All rights reserved.

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