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You can read the recommendations in the user guide, the technical guide or the installation guide for LA CROSSE TECHNOLOGY WS9152. You'll find the answers to all your questions on the LA CROSSE TECHNOLOGY WS9152 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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WEATHER STATION **Instruction manual**

INTRODUCTION:

Congratulations on purchasing this innovative 868 MHz Weather Station which displays the weather forecast, time, indoor temperature, relative air pressure and up to three outdoor temperature readings. To enjoy the full benefits of this innovative product, please read this operating manual.

« Instant Transmission+ » is the up and coming state-of-the-art new wireless transmission technology, exclusively designed and developed by LA CROSSE TECHNOLOGY.
"IT + " offers you an immediate update of all your outdoor data measured from the transmitters: follow your climatic variations in real-time!



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Manual abstract:

5V batteries. To install and replace the batteries, please follow the steps below: 1. Insert finger or other solid object in the space at the bottom center of the battery compartment and lift up to remove the cover. 2. Insert batteries observing the correct polarity (see marking). 3. Replace compartment cover. **TO INSTALL AND REPLACE BATTERIES IN THE TEMPERATURE TRANSMITTER** The Temperature transmitter uses 2 x AA, IEC LR6, 1.5V batteries. To install and replace the batteries, please follow the steps below: 1.

Remove the battery compartment cover at the back of the outdoor temperature transmitter. 2. Insert batteries observing the correct polarity (see marking). 3. Replace compartment cover.

39 Note: In the event of changing batteries in any of the units, all units need to be reset by following the setting up procedures. This is because a random security code is assigned by the transmitter at start-up and this code must be received and stored by the Weather Station in the first 3 minutes of power being supplied to it. **BATTERY CHANGE:** It is recommended to replace the batteries in all units regularly to ensure optimum accuracy of these units (Battery life See Specifications below). Please participate in the preservation of the environment. Return used batteries to an authorized depot.

SETTING UP : When one transmitter is used 1. First, insert the batteries into the Temperature transmitter. (see "Install and replace batteries in the Temperature transmitter"). 2. Immediately after and within 45 seconds, insert the batteries into Weather station (see "Install and replace batteries in the Weather station"). Once the batteries are in place, all segments of the LCD will light up briefly. Following the time as 0:00 and the indoor temperature and humidity 40 3. 4. 5. will be displayed.

If these are not displayed after 60 seconds, remove the batteries and wait for at least 10 seconds before reinserting them. After inserting the batteries, the Weather station will start receiving data from the transmitter. The outdoor temperature and the signal reception icon should then be displayed on the Weather station. If this does not happen after 3 minutes, the batteries will need to be removed from both units and reset from step 1. In order to ensure sufficient 868 MHz transmission however, this should under good conditions be a distance no more than 100 meters between the final position of the Weather station and the transmitter (see notes on "Positioning" and "868 MHz Reception"). Once the remote temperature has been received and displayed on the Weather station, the DCF time (radio controlled time) code reception is automatically started. This takes typically between 35 minutes in good conditions. If after 10 minutes, the DCF time has not been received, press the SET key to manually enter a time initially. When more than one transmitter is used 1. User shall remove all the batteries from the Weather station and transmitters and wait for 60 seconds if setting has been done with one transmitter before.

2. Insert the batteries to the first transmitter. 3. Within 25 seconds of powering up the first transmitter, insert the batteries to the Weather station. Once the batteries are in place, all segments of the LCD will light up briefly.

Following time as 0:00 and the indoor temp and humidity will be displayed. If they are not shown in LCD after 60 seconds, remove the batteries and wait for at least 60 seconds before reinserting them. 4. The outdoor temperature from the first transmitter (channel 1) should then be displayed on the Weather station. Also, the signal reception icon will be displayed.

If this does not happen after 2 4 1 5. minutes, the batteries will need to be removed from both units and reset from step 1. Insert the batteries to the second transmitter as soon as the outdoor temperature readings from the first transmitter are displayed on the Weather station. Note: User shall insert the batteries into the second transmitter within 10 seconds of reception of the first transmitter. 6. The outdoor data from the second transmitter and the "channel 2" icon should then be displayed on the Weather station. If this does not happen after 2 minute, the batteries will need to be removed from all the units and reset from step 1. Insert the batteries to the third transmitter as soon as the "channel 2" icon and outdoor data are displayed on the Weather station. Then within 2 minutes, the channel 3 outdoor data from the third transmitter will be displayed and the channel icon will shift back to "1" once the third transmitter is successfully received. If this is not happen, user shall restart the setting up from step 1.

7. Note: · User shall insert the batteries into the third transmitter within 10 seconds of reception of the second transmitter. 8. In order to ensure sufficient 868 MHz transmission however, this should under good conditions be a distance no more than 100 meters between the final position of the Weather station and the transmitter (see notes on "Positioning" and "868 MHz Reception"). 42 **IMPORTANT:** Transmission problems will arise if the setting for additional sensors is not followed as described above. Should transmission problems occur, it is necessary to remove the batteries from all units and start again the set-up from step 1. 9. Once the remote temperature has been received and displayed on the Weather station, the DCF time (radio controlled time) code reception is automatically started. This takes typically between 3-5 minutes in good conditions. If after 10 minutes, the DCF time has not been received, press the SET key to manually enter a time initially.

Note: Daily DCF reception is done at 02:00 and 03:00 every day. If the reception at 03:00 is not successful, then at 04:00 and 05:00 and 06:00 there are other tries, until one is successful. If the reception at 06:00 is still not successful, then the next try takes place at 02:00 next day. If reception is successful, the received time will override the manually set time. The date is also updated with the received time.

(Please refer also to notes on "DCF-77 Radio Controlled time" and "Manual Time Setting") **DCF RADIO CONTROLLED TIME** The time base for the radio controlled time is a Cesium Atomic Clock operated by the Physikalisch Technische Bundesanstalt Braunschweig which has a time deviation of less than one second in one million years. The time is coded and transmitted from Mainflingen near Frankfurt via frequency signal DCF-77 43 (77.5 kHz) and has a transmitting range of approximately 1,500 km. Your radio-controlled Weather Station receives this signal and converts it to show the precise time in summer or wintertime. The quality of the reception depends greatly on the geographic location.

In normal cases, there should be no reception problems within a 1500km radius of Frankfurt. Once the outdoor reception test period is completed, the DCF tower icon in the clock display will start flashing in the upper center.



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This indicates that the clock has detected that there is a radio signal present and is trying to receive it. When the time code is received, the DCF tower becomes permanently lit and the time will be displayed. If the tower icon flashes, but does not set the time or the DCF 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 1.5 - 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 Frankfurt transmitter. · During nighttime, the atmospheric disturbances are usually less severe and reception is possible in most cases. @@@@ (If not successful, the icon will not be shown on the LCD).

@@@@ Press the SET key until the digit starts flashing. 2. Use the OUT/+ key to view all levels of contrast. 3. Select the desired LCD contrast. Confirm with the SET key and enter in the Time Zone setting. TIME ZONE SETTING: Digit flashing in the range of 960 1040 hPa (28.35 30.72 inHg) for a better reference. Digit flashing 1.

@@@@@ 1. The current sensitivity value will start flashing. 2. Use the OUT/+ key to set the weather sensitivity level. There are 3 levels of setting: 2, 3 and 4. @@@@ 3. @@@@@@ This will allow sufficient time for the Weather station to collect air pressure data at a constant altitude and therefore result in a more accurate forecast. Common to weather forecasting, absolute accuracy cannot be guaranteed. The weather forecasting feature is estimated to have an accuracy level of about 75% due to the varying areas the Weather station has been designed for use. In areas that experience sudden changes in weather (for example from sunny 58 to rain), the Weather Station will be more accurate compared to use in areas where the weather is stagnant most of the time (for example mostly sunny).

If the Weather station is moved to another location significantly higher or lower than its initial standing point (for example from the ground floor to the upper floors of a house), discard the weather forecast for the next 12-24 hours. By doing this, the Weather Station will not mistake the new location as being a possible change in air-pressure when really it is due to the slight change of altitude. WEATHER TENDENCY INDICATOR Working together with the weather icons is the weather tendency indicators (located on the left and right sides of the weather icons). When the indicator points upwards, it means that the air-pressure is increasing and the weather is expected to improve, but when indicator points downwards, the air-pressure is dropping and the weather is expected to become worse. Taking this into account, one can see how the weather has changed and is expected to change. For example, if the indicator is pointing downwards together with cloud and sun icons, then the last noticeable change in the weather was when it was sunny (the sun icon only). Therefore, the next change in the weather will be cloud with rain icons since the indicator is pointing downwards. Note: Once the weather tendency indicator has registered a change in air pressure, it will remain permanently visualized on the LCD. AIR PRESSURE HISTORY (ELECTRONIC BAROMETER WITH BAROMETRIC PRESSURE TREND) 59 The third section of the LCD also shows the relative air pressure value and the air pressure history. Air pressure over the last 12 hours The bar chart indicates the air pressure history trend over the last 12 hours in 5 steps, 0h, -3h, -6h, -9h, and -12h.

The "0h" represents the current full hour air pressure recording. The columns represent the "hPa" (0, ±2, ±4) at specific time. The "0" in the middle of this scale is equal to the current pressure and each change (±2, ±4) represents how high or low in "hPa" the past pressure was compared to the current pressure. If the bars are rising it means that the weather is getting better due to the increase of air pressure. If the bars go down, it means the air pressure has dropped and the weather is expected to get worse from the present time "0h". Note: For accurate barometric pressure trends, the Weather Station should operate at the same altitude for example, it should not be moved from the ground to the second floor of the house. Should the unit be moved to a new location, discard readings for the next 12-24 hours. OUTDOOR TEMPERATURE 60 The fourth LCD section shows the outdoor temperature, the reception indicator, the transmitter identification number and the MIN/MAX outdoor data. MAX icon Outdoor temperature in °C/ °F Outdoor transmitter identification number TOGGING AND RESETTING THE OUTDOOR DATA 1. Press the OUT/+ key to toggle between the outdoor current, outdoor MAX temperature, and outdoor min temperature and the times (for temperature data only): Press once to show the MAX outdoor temperature data with the recorded time and date. Press twice to show the MIN outdoor temperature data with the recorded time and date. Press three times to return to the current displayed values. 2. Once the MIN or MAX data is displayed, press and hold the SET key for 3 seconds to reset the respective MIN or MAX record to current temperature data, and current time, date display. Note: The MIN or MAX data needs to be reset individually.

61 ABOUT THE OUTDOOR TRANSMITTER The outdoor temperature is measured and transmitted every 4 seconds. The range of the Temperature transmitter may be affected by the temperature. At cold temperatures the transmitting distance may be decreased. Please bear this in mind when placing the transmitter. CHECKING FOR 868MHz RECEPTION If the outdoor temperature data is not being received within three minutes after setting up (or outdoor display show "-").

- " in the outdoor section of the Weather station after 3 failed attempts during normal operation), please check the following points: 1. The distance of the Weather station or transmitters should be at least 2 meters away from any interfering sources such as computer monitors or TV sets. 2. Avoid placing the transmitters onto or in the immediate proximity of metal window frames. 3. Using other electrical products such as headphones or speakers operating on the 868MHz-signal frequency may prevent correct signal transmission or reception. 4. Neighbors using electrical devices operating on the 868MHz-signal frequency can also cause interference. Note: When the 868MHz signal is received correctly, do not re-open the battery cover of either the transmitter or Weather station, as the batteries may spring free from the contacts and force a false reset. @@@@ Avoid direct rain and sunshine.

@@ 1. 2. Fix a screw (not supplied) into the desired wall, leaving the head extended out the by about 5mm. Remove the stand from the Weather Station by pulling it away from the base and hang the station onto the screw.



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Remember to ensure that it locks into place before releasing. 63 Free standing With the foldout stand, the weather station can be placed onto any flat surface.

64 POSITIONING THE TEMPERATURE TRANSMITTER: The Transmitter is supplied with a holder that may be attached to a wall with the two screws supplied. The Transmitter can also be position on a flat surface by securing the stand to the bottom to the Transmitter. To wall mount: 1. 2.

Secure the bracket onto a desired wall using the screws and plastic anchors. Clip the remote temperature sensor onto the bracket. 65 Note: Before permanently fixing the transmitter wall base, place all units in the desired locations to check that the outdoor temperature reading is receivable. In event that the signal is not received, relocate the transmitters or move them slightly as this may help the signal reception. CARE AND MAINTENANCE: Extreme temperatures, vibration and shock should be avoided as these may cause damage to the units and give inaccurate forecasts and readings.

When cleaning the display and casings, use a soft damp cloth only. Do not use solvents or scouring agents as they may mark the LCD and casings. Do not submerge the units in water. Immediately remove all low powered batteries to avoid leakage and damage. Replace only with new batteries of the recommended type.

Do not make any repair attempts to the units. Return it to their original point of purchase for repair by a qualified engineer. Opening and tampering with the units may invalidate their guarantee. Do not expose the units to extreme and sudden temperature changes, this may lead to rapid changes in forecasts and readings and thereby reduce their accuracy. SPECIFICATIONS: Temperature measuring range: Temperature measuring range: 66 Indoor -9.9°C to +59.9°C with 0.1°C resolution +14.2°F to +139.8°F with 0.

2°F resolution ("OF.L" displayed if outside this range) Outdoor : -39.9°C to +59.9°C with 0.1°C resolution -39.8°F to +139.8°F with 0.2°F resolution ("OF.L" displayed if outside this range) Indoor humidity range : 1% to 99% with 1% resolution (Display "- " if outside this range) Indoor temperature checking intervals : Every 15 seconds Indoor humidity checking intervals : Every 20 seconds Air pressure checking interval : Every 15 seconds Outdoor temperature checking interval : Every 4 seconds Transmission range : up to 100 meters (open space) Power consumption: (alkaline batteries recommended)

Weather Station : 2 x AA, IEC LR6, 1.5V Transmitter : 2 x AA, IEC LR6, 1.

5V Dimensions (L x W x H): Weather Station Transmitter : : 93 x 32 x 160 mm 38.2 x 21.2 x 128.3 mm : LIABILITY DISCLAIMER: · The electrical and electronic wastes contain hazardous substances. Disposal of electronic waste in wild country and/or in unauthorized grounds strongly damages the environment.

67 Please contact your local or/and regional authorities to retrieve the addresses of legal dumping grounds with selective collection. All electronic instruments must from now on be recycled. User shall take an active part in the reuse, recycling and recovery of the electrical and electronic waste. The unrestricted disposal of electronic waste may do harm on public health and the quality of environment. As stated on the gift box and labeled on the product, reading the "User manual" is highly recommended for the benefit of the user.

This product must however not be thrown in general rubbish collection points. 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 designed for use in the home only as indication of the temperature. 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. 68 R&TTE Directive 1999/5/EC Summary of the Declaration of Conformity : We hereby declare that this wireless transmission device does comply with the essential requirements of R&TTE Directive 1999/5/EC. 69 .



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