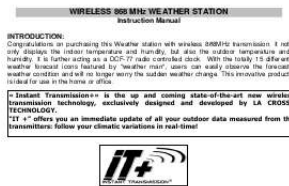




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You can read the recommendations in the user guide, the technical guide or the installation guide for LA CROSSE TECHNOLOGY WS9624. You'll find the answers to all your questions on the LA CROSSE TECHNOLOGY WS9624 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual LA CROSSE TECHNOLOGY WS9624**  
**User guide LA CROSSE TECHNOLOGY WS9624**  
**Operating instructions LA CROSSE TECHNOLOGY WS9624**  
**Instructions for use LA CROSSE TECHNOLOGY WS9624**  
**Instruction manual LA CROSSE TECHNOLOGY WS9624**



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**Manual abstract:**

@@This innovative product is ideal for use in the home or office. @@ "IT +" offers you an immediate update of all your outdoor data measured from the transmitters: follow your climatic variations in real-time! 48 FEATURES: The Weather station Hanging hole LCD Display Battery compartment cover Function Keys Foldout Stand 49 . . . . . DCF Radio controlled time function or manual time setting option DCF time reception ON/OFF setting 12/24 hour display Hour and minute and second display Time zone option  $\pm 12$  hours Wireless transmission at 868 MHz Signal reception intervals at 4-second Display indoor and outdoor temperature and humidity (% RH) Temperature display in degrees Celsius ( $^{\circ}\text{C}$ ) or Fahrenheit ( $^{\circ}\text{F}$ ) selectable Weather forecasting with 15 easy-to-read weather forecast signs featured by Weatherman Weather forecasting icon sensitivity setting Indoor and Outdoor temperature and humidity display with MIN/MAX recording MIN/MAX records show date and time received of the temperature, and all MIN/MAX recordings can be reset Can take up to three outdoor transmitters Display Daily Outdoor Min and Max temperature LCD contrast setting Low battery indicator Table standing/ Wall mounting 50 The Outdoor Thermo-hygro Transmitter . . . . Remote transmission of outdoor temperature and humidity to Weather Station by 868 MHz Display alternately the outdoor temperature and humidity readings on LCD Shower proof casing Wall mounting case (Mounting at a sheltered place. Avoid direct rain and sunshine) SETTING UP: When one transmitter is used 1. First, insert the batteries into the Thermo-hygro transmitter. (see "Install and replace batteries in the Thermo-hygro transmitter transmitter"). 2. Immediately after and within 25 seconds, insert the batteries into Weather station (see "Install and replace batteries in the Weather station"). Once the batteries are in 51 3. 4. 5.

place, all segments of the LCD will light up briefly. Following the time as 0:00 and the "weather man" icon 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 & humidity 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 "Mounting" 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 3-5 minutes in good conditions. 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 weather man icon will be displayed. If they are not shown 52 4. 5. in LCD after 60 seconds, remove the batteries and wait for at least 60 seconds before reinserting them.

The outdoor temperature and humidity 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 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 & humidity 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. User shall insert the batteries into the third transmitter within 10 seconds of reception of 7. Note: . 53 the second transmitter. . And user may require to check the displayed readings on the weather station against those shown on the transmitters in order to recognise the Channel No. of each transmitter.

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 "Mounting" and "868 MHz Reception"). 8. 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. 54 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 Reception" and "Manual Time Setting") BATTERY INSTALLATION INSTALL AND REPLACE BATTERIES IN THE WEATHER STATION The Weather station uses 2 x AA, IEC LR6, 1.5V batteries.

To install and replace the batteries, please follow the steps below: 1.



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Remove the cover at the back of the weather station. 2. Insert batteries observing the correct polarity (see marking). 3. Replace compartment cover. 55  
INSTALL AND REPLACE BATTERIES IN THE THERMO-HYGRO TRANSMITTER The Thermo-hygro transmitter uses 2 x AA, IEC LR6, 1.5V battery. To install and replace the batteries, please follow the steps below: 1. 2.

3. Remove the battery compartment cover. Insert the batteries, observing the correct polarity (see marking). Replace the battery compartment cover on the unit. 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 56 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 authorised depot.

FUNCTION KEYS: Weather station: The weather station has four easy to use function keys. CH key MIN/ MAX key SET key + key 57 SET key (Setting): · To enter the set mode for the following functions: LCD contrast, Time zone, Time Reception ON/OFF, 12/24 hour display, Manual time, Year, Month, Day, Temp unit °C/°F, and Weather forecast sensitivity settings.

· Press to reset the maximum or minimum temperature and humidity records of the indoor or the currently selected outdoor channel (will reset all records to current level) MIN/ MAX · To toggle between the maximum/ minimum outdoor temperature and humidity and maximum/ minimum indoor temperature and humidity data + key · To make adjustment for various settings · CH key To toggle between the Outdoor transmitters 1, 2 and 3 (if more than 1 transmitter is used) To exit from the manual setting mode 58 LCD SCREEN AND SETTINGS: Time Radio controlled time reception icon Date Indoor Temperature Indoor Relative Humidity % Weather Tendency indicator Weather Forecast icon (Weather man) Outdoor Reception Signal\* Transmitter identification (channel No.)

Outdoor Relative Humidity % Transmitter low battery indicator Daily max outdoor temp Outdoor Temperature Receiver Low battery indicator Daily min outdoor temp 59 \*When the outdoor signal is successfully received by the Weather Station, this icon will be switched on. (If not successful, the icon will not be shown in LCD) So user can easily see whether the last reception was successful (icon on) or not (icon off). On the other hand, the short blinking of the icon shows that a reception is currently taking place. For better distinctness the LCD screen is split into 5 sections displaying the information for Time and date, indoor data, weather forecast, outdoor data and daily outdoor min/ max temperature. Section 1 - TIME AND DATE · In normal mode, display the current time and date. · When + key is pressed, second of time will be shown. · Section 2 - INDOOR TEMPERATURE AND INDOOR HUMIDITY Display the current indoor temperature and humidity. Section 3 - WEATHER ICON (FEATURED BY WEATHER MAN) · Display of the weather to be expected in form of 15 fancy weather symbols (featured by Weather man) which change their appearance depending on the air pressure development (past air pressure change) and the current outdoor temperature. · Display the weather tendency indicator 60 · A signal reception symbol will be shown indicating that receiver is receiving outdoor data (Format of the weather man icons refers to the "WEATHER FORECAST AND TENDENCY") · Section 4 - OUTDOOR TEMPERATURE AND

HUMIDITY Display the outdoor temperature and humidity of the currently selected channel.

Section 5 - DAILY OUTDOOR MINIMUM AND MAXIMUM TEMPERATURE · Display the daily outdoor minimum and maximum temperature of the currently selected channel. DCF-77 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 (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 1,500 km radius around Frankfurt. 61 Once the outdoor temperature is displayed on the Weather station after initial set-up, the DCF tower icon in the clock display will start flashing in the upper left corner. 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 pinitial set-up.

Once the radio-controlled time signals are received, the date is automatically updated. However, if the signals are not received, the date can also be set manually. To do this: 1. Using the + key, set the year required. The range runs from 2003 to 2029 (default is 2006).

2. Press the SET key to enter the month setting mode. 3. The month digit will be flashing. @@4.

The date digit will be flashing. @@To select °F (degree Fahrenheit): 1. @@2. @@There are 3 levels of setting: 2, 3 and 4 (hPa).

@@@@@For example, if the indicator is pointing downwards together with cloudy icons, it means that the last noticeable change in the weather was when it was sunny (the sunny icon only). Therefore, the next change in the weather will be the cloudy icons since the indicator is pointing downwards. 73 Note: Once the weather tendency indicator has registered a change in air pressure, it will remain permanently visualized on the LCD. DISPLAY OF INDOOR TEMPERATURE AND HUMIDITY READING: The indoor temperature and humidity are measured and displayed on the second section of the LCD. Indoor icon Indoor Temperature Indoor Relative Humidity % DISPLAY OF OUTDOOR

TEMPERATURE AND HUMIDITY READING: The outdoor temperature and humidity are measured and displayed on the fourth section of the LCD. Transmitter identification No.

Outdoor icon (shown when more than one transmitter is used) Outdoor Temperature 74 Outdoor Humidity Note: The channel number will shown if more than one transmitter has been used. DISPLAY OF OUTDOOR MAXIMUM AND MINIMUM RECORDS: 1. In normal display mode, press the CH button to select the desired channel. The channel ID will be displayed next to the outdoor temperature reading. 2. Press the MIN/MAX button once, the max outdoor temperature and humidity of the selected channel will be displayed.



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Also the time and date of recording this temperature will be displayed: Note: The time and date of recording the min/max humidity reading will not be shown. 75 Time and date of recording the Max temperature Outdoor icon Max temperature Channel No. Max humidity Max icon 3. By pressing MIN/MAX button once more, the min temperature and humidity of the 76 4.

selected channel will be shown. Also the time and date of recording this temperature will be displayed. Press one more time the MIN/ MAX button to advance to the indoor Max/ Min temp display. Note: The time of recording the minimum or maximum humidity is not recorded. **RESETTING THE OUTDOOR MAXIMUM/ MINIMUM RECORDS** Note: · · 1.

It is required to reset the outdoor max/ min records of different channels separately. The outdoor minimum and maximum records are to be reset separately. In normal display mode, press the CH button to select a channel. The channel Identification No. (channel No.

) will be displayed near the outdoor temperature reading. Note: The transmitter number will only be displayed if more than one transmitter is applied. 2. 3. 4. Press the MIN/MAX button once. The "max" icon will be displayed. Press the SET button, this will reset the outdoor maximum temperature, humidity and time (of recording the temp) to the current value. Press MIN/ MAX button once more to show the minimum data. The "min" icon will be displayed.

77 5. 6. Press the SET button, this will reset the outdoor minimum temperature , humidity and time (of recording the temp) record to the current value. Press three more times the MIN/MAX key to return to the normal display. **DISPLAY OF INDOOR MAXIMUM AND MINIMUM RECORDS:** 1. In normal display mode, press the MIN/MAX button three times. The maximum indoor temperature and humidity will be shown in the bottom section of LCD. Also the time and date of recording this temperature will be displayed. Then press the MIN/MAX button one more time, the minimum indoor temperature and humidity will be shown in the bottom section of LCD. Also the time and date of recording this temperature will be displayed: Time and date of recording the Min temperature 2.

Indoor icon Min temperature Min icon Min humidity 78 3. Press one more time the MIN/ MAX button to go back to the normal display. Note: The time of recording the minimum or maximum humidity is not recorded. **RESETTING THE INDOOR MAXIMUM/ MINIMUM RECORDS** 1. 2. 3. 4. 5. In normal display mode, press the MIN/MAX button three times to advance to the indoor MAX display. Press the SET key once, this will reset the currently shown indoor maximum temp , humidity and time (of recording the temp) to the current time, date and temperature.

Press the MIN/MAX button once more to advance to the indoor MIN display. Press the SET key once, this will reset the currently shown indoor minimum temp , humidity and time (of recording the temp) to the current time, date and temperature. Press the MIN/MAX button once more to return to the normal display. **DAILY MIN AND MAX OUTDOOR TEMPERATURE DISPLAY** This weather station will display the daily maximum and minimum outdoor temperature for each outdoor channel, at the bottom of the LCD, in normal display. 79 Channel No. Min daily temp of the channel Max daily temp of the channel To view the daily max and min temperature of another channel, user shall press the CH key in normal display. Note: The daily minimum temperature record is reset automatically at 8:00 pm and the daily maximum temperature is reset automatically at 8:00 am every day. 80 868 MHz **RECEPTION** The Weather station should receive the temperature data within 5 minutes after set-up. If the outdoor data signal cannot be received 5 minutes after setting up or in normal mode the signal reception is "disturbed" continuously, the outdoor display will show "- - -". Then user shall check the following points: 1.

2. 3. 4. Note: · The distance of the weather station or transmitter should be at least 1.5 to 2 meters away from any interfering sources such as computer monitors or TV sets. Avoid positioning the Weather station onto or in the immediate proximity of metal window frames. Using other electrical products such as headphones or speakers operating on the same signal frequency (868MHz) may prevent correct signal transmission and reception. Neighbours using electrical devices operating on the 868MHz signal frequency can also cause interference. 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. Should this happen accidentally then reset all units (see Setting up above) otherwise transmission problems may occur.

@@@To wall mount Choose a sheltered place. Avoid direct rain and sunshine. @@1. Fix a screw (not supplied) into the desired wall, leaving the head extended out the by about 5mm. 2.

Hang the station onto the screw. Remember to ensure that it locks into place before releasing. 82 Free standing With the stand, the weather station can be placed onto any flat surface. 83 **POSITIONING THE THERMO-HYGRO 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. Secure the bracket onto a desired wall using the screws and plastic anchors. 2. Clip the remote thermo-hygro transmitter onto the bracket.

84 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, vibrations and shocks should be avoided as these may cause damage to the unit 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.

Furthermore, fix all parts in place where the units are adequately protected against moisture and rain. 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 unit. Return them to their original point of purchase for repair by a qualified engineer. Opening and tampering with the unit may invalidate their guarantee. 85 · 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: Indoor : -9.9°C to +59.



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9°C with 0.

1°C resolution (14.1°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 Relative humidity measuring range: Indoor: 1% to 99% with 1% resolution (displays "-" when lower than 1 %; displays "99" % if higher than 99 %) Outdoor: 1% to 99% with 1% resolution (displays "1" when lower than 1 %; displays "99" % if higher than 99 %) Indoor temperature checking interval : every 15 seconds Indoor humidity checking interval : every 20 seconds Outdoor data reception : every 4 seconds Power supply: Weather station : 2 x AA, IEC, LR6, 1.5V 86 Thermo-hygro transmitter : 2 x AA, IEC, LR6, 1.5V Battery life cycle (Alkaline batteries recommended) Weather station : Approximately 12 months Thermo-hygro transmitter : Approximately 12 months Dimensions (L x W x H) Weather station : Thermo-hygro transmitter : 122.8 x 23.1 x 169.7 mm (4.83" x 0.91" x 6.68") 38.

2 x 21.2 x 128.3 mm (1.50" x 0.83" x 5.05") 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. 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. 87 . . . . 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 and other weather data.

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.

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. 88 .



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