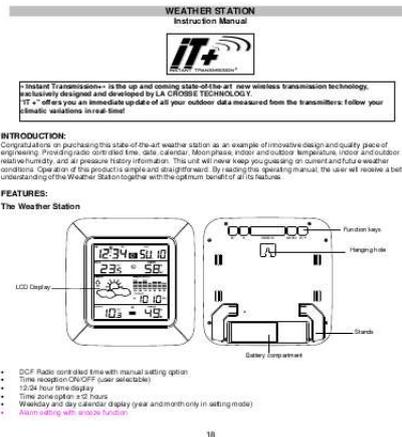




# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for LA CROSSE TECHNOLOGY WS-9057. You'll find the answers to all your questions on the LA CROSSE TECHNOLOGY WS-9057 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 WS-9057  
User guide LA CROSSE TECHNOLOGY WS-9057  
Operating instructions LA CROSSE TECHNOLOGY WS-9057  
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**Manual abstract:**

By reading this operating manual, the user will receive a better understanding of the Weather Station together with the optimum benefit of all its features.

**FEATURES:** The Weather Station Function keys Hanging hole LCD Display Stands Battery compartment . . . . . DCF Radio controlled time with manual setting option Time reception ON/OFF (user selectable) 12/24 hour time display Time zone option  $\pm 12$  hours Weekday and day calendar display (year and month only in setting mode) Alarm setting with snooze function 18 . . . . . Display 12 Moon phases throughout the year Weather forecasting with weather tendency indicator Indoor comfort indicator Temperature display in  $^{\circ}\text{C}/^{\circ}\text{F}$  Indoor and outdoor temperature display with MIN/MAX records and time of reception Humidity data display as RH% Indoor and outdoor humidity display with MIN/MAX records Relative air pressure hPa/ inHg with adjustable reference value Weather icon sensitivity setting Relative air pressure history for the past 24 hours (electronic barometer with barometric pressure trend)

Wireless transmission at 868 MHz Signal reception intervals at 4 seconds LCD contrast selectable Can receive up to 3 outdoor transmitters Low battery indicator Table standing or wall mounting 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) **TO INSTALL AND REPLACE BATTERIES IN THE WEATHER STATION** The Weather Station uses 2 x C, IEC LR14, 1.5V 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.

**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. Remove the battery compartment cover. 2.

Insert the batteries, observing the correct polarity (see marking). 3. Replace the battery compartment cover on the unit. 19 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 on an annual basis to ensure optimum accuracy of these units.

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 in the transmitter (see "How to install and replace batteries in the Thermo-hygro outdoor transmitter" above). 2. Within 2 minutes of powering up the transmitter, insert the batteries in the Weather Station (see "How to install and replace batteries in the Weather Station" above). Once the batteries are in place, all segments of the LCD will light up briefly and a short signal tone will sound. Following the indoor temperature/humidity and the time as 0:00 will be displayed. If these information are not displayed on the LCD after 60 seconds, remove the batteries and wait for at least 60 seconds before reinserting them. Once the indoor data is displayed user may proceed to the next step.

3. After the batteries are inserted, the Weather station will start receiving data signal from the transmitter. The outdoor temperature and humidity data should then be displayed on the Weather station. If this does not happen after 2 minutes, the batteries will need to be removed from both units and reset from step 1.

4. In order to ensure sufficient 868 MHz transmission however, the distance between the Weather Station and the transmitter should not be more than 100 meters (see notes on "Positioning" and "868 MHz Reception"). Note: In the event of changing batteries of the units, ensure the batteries do not spring free from the contacts. Always wait at least 1 minute after removing the batteries before reinserting, otherwise start up and transmission problems may occur.

**WHEN MORE THAN ONE TRANSMITTER IS USED** 1. User shall remove all the batteries from the Weather Station and transmitters, and wait 60 seconds.

2. Insert the batteries in the first transmitter. 3. Within 2 minutes of powering up the first transmitter, insert the batteries in the Weather Station. Once the batteries are in place, all segments of the LCD will light up briefly and a short signal tone will sound.

Following the indoor temperature/humidity and the time as 0:00 will be displayed. If these information are not displayed on the LCD after 60 seconds, remove the batteries from both units and wait for at least 60 seconds before reinserting them. 4. The outdoor temperature and humidity data 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. 5. Insert the batteries in the second transmitter as soon as the outdoor temperature and humidity readings from the first transmitter are displayed on the Weather Station. Note : User shall insert the batteries into the second transmitter within 45 seconds after the Weather Station displays the information of the first transmitter. 6. The outdoor temperature and humidity from the second transmitter and the "channel 2" icon should then be displayed on the Weather Station. If this does not happen after 2 minutes, the batteries will need to be removed from all the units and reset from step 1. 7. Insert the batteries in 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 20 8. step 1. Note : User shall insert the batteries into the third transmitter within 45 seconds after the Weather Station displays the information of the first transmitter. In order to ensure sufficient 868 MHz transmission however, the distance between the Weather Station and the transmitter should not be more than 100 meters (see notes on "Positioning" and "868 MHz Reception").



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**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. **RESETTING** The Weather Station and the Thermo-hygro transmitter need to be reset when one of the following conditions occur: · Unsuccessful 868MHz signal reception. · Malfunction on the units. · Batteries replacement. For resetting, remove all batteries from the units.

Wait at least for 1 minute before powering up the Weather station again. Proceed from step 1 in "Setting Up". **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 (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 data reception learning period is completed, 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 permanently lit and the time will be displayed. DCF reception is done twice daily at 02:00 and 03:00 am. If the reception is not successful at 03:00 am, then the next reception takes place the next hour and so on until 06:00am, or until the reception is successful. If the reception is not successful at 06:00 am, then the next attempt will take place the next day at 02:00 am. 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. A single daily reception is adequate to keep the accuracy deviation below 1 second.

**21 FUNCTION KEYS:** Weather Station: The Weather Station has 5 easy to use function keys: SET key IN key SNOOZE/CH key ALM/DATE key OUT/+ key SET key · Press and hold the key to enter manual setting modes: LCD contrast, time zone, time reception ON/OFF, 12/24 hour display, manual time setting, calendar, temperature ° F, p ressure hPa/inHg, relative pressure value, and weather icon sensitivity C° setting · Reset all MIN/MAX records · Stop the alarm during alarm ringing · Stop snooze mode IN key · Press to toggle between MAX/MIN and current indoor temperature/humidity data · Press to set the alarm hour (inside alarm setting mode) · Decrease relative pressure value (within manual set mode) · Stop the alarm during alarm ringing · Stop snooze mode ALM/DATE key · Press and hold key for 3 seconds to enter the alarm setting mode · Active/de-active the alarm time · Stop the alarm during alarm ringing · Stop snooze mode · Display date OUT/+ key · Press shortly to toggle between MAX/MIN and current outdoor temperature/humidity data · Increase, change, toggle all values in manual set mode · Press to set the alarm minute (inside alarm setting mode) · Stop the alarm during alarm ringing · Stop snooze mode SNOOZE/CH key · Active snooze function during alarm ringing · Exit the manual set mode and alarm setting mode · Switch among display of channels (if more than 1 transmitter is used) **LCD SCREEN** The LCD screen is split into 4 sections displaying the information for time/calendar/moon phase, indoor data, weather forecast and outdoor data. **22 Time reception icon (for DCF time) Moon phase icon Time Calendar Low battery indicator Indoor temperature in °C/°F Comfort indicator icon Indoor relative humidity in RH% Weather tendency indicator Weather forecast icon Relative air pressure history bar graph Relative air pressure in hPa / inHg Outdoor data signal reception indicator\* Outdoor temperature in °C/ °F Outdoor relative humidity in RH% Transmitter identification number (if more than 1 transmitter is used) \* When the signal is successfukey again to confirm and to enter the date setting mode. The date starts flashing. 6. Use the OUT/+ key to set the date. 7. Confirm all calendar settings with the SET key and enter the Temperature unit setting. ° F**

**TEMPERATURE SETTING:** C° Flashing The temperature display can be selected to show temperature data in ° or °F (Default ° C C). 1. Use the OUT/+ key to toggle between "°" or "°F".

**C" 2. Confirm with the SET key and enter the Air pressure unit setting. hPa / inHg PRESSURE UNIT SETTING:** The pressure display can be selected to show relative air pressure in hPa or inHg (default is "hPa"). Flashing 25 1. 2. Use the OUT/+ key to toggle between "hPa" or "inHg" unit Confirm with the SET key and enter the Relative air pressure value setting. Note: Units of weather icon sensitivity and air pressure history are not affected. They are always expressed in hPa. **RELATIVE AIR PRESSURE VALUE SETTING** The default relative pressure value is 1013 hPa (29.92 inHg).

This can be manually set to another value within the range of 960 1040 hPa (28.35 30.72 inHg) for a better reference. Flashing 1. 2. 3. The current relative pressure value will start flashing Use the OUT/+ key to increment and IN key to decrement the value. Keep holding the key allows the value to advance faster. Confirm with the SET key and enter the Weather forecast icon sensitivity setting. **WEATHER FORECASTING ICON SENSITIVITY SETTING:** For locations with rapid changes of weather conditions, the weather icons sensitivity can be set to a different level for faster display of weather conditions.

Flashing 1. 2. 3. The current sensitivity value will start flashing. Use the OUT/+ key to set the weather sensitivity level. There are 3 levels of setting: 2, 3 and 4. The value corresponds to the change of air pressure in hPa before the weather icon will switch to another state. @@@@1. Press and hold the ALM/DATE key to enter the alarm set mode.



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The alarm digits flash.

2. Use the IN key to set the alarm hour. 26 3. 4. Use the OUT/+ key to set the alarm minute.

Confirm with SNOOZE/CH key and exit the Alarm setting. @@To view and active the alarm, press the ALM/DATE key.

@@@Three times to return to the current displayed values. 2. @@@@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 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. 28 AIR PRESSURE HISTORY (ELECTRONIC BAROMETER WITH BAROMETRIC PRESSURE TREND) The third section of the LCD also shows the relative air pressure value and the air pressure history. Air pressure over the last 24 hours The bar chart indicates the air pressure history trend over the last 24 hours in 7 steps, 0h, -3h, -6h, -9h, -12h, -18h, and -24h. The "0h" represents the current full hour air pressure recording. The columns represent the "hPa" (0, ±2, ±4, ±6) at specific time. The "0" in the middle of this scale is equal to the current pressure and each change (±2, ±4, ±6) 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/HUMIDITY DATA The fourth LCD section shows the outdoor temperature and humidity, the reception indicator, the transmitter identification number and the MIN/MAX outdoor data. Reception indicator MIN icon Outdoor temperature in ° C/ F Outdoor transmitter identification number Outdoor relative humidity in RH% TOGGING AND RESETTING THE OUTDOOR DATA To toggle between the outdoor current, MAX/MIN temperature and humidity data and the times (for temperature data only) they were recorded press the OUT/+ key: Once to show the MAX outdoor temperature and humidity data with the recorded time and date. Twice to show the MIN outdoor temperature and humidity data with the recorded time and date. Three times to return to the current displayed values. 2.

@@Note: The MIN or MAX data needs to be reset individually. 1. TO VIEW THE MIN/MAX DATA FROM DIFFERENT TRANSMITTERS When more than 1 transmitter used: 1. To toggle between transmitters, press the SNOOZE/CH key: Once to show transmitter 2 Twice to show transmitter 3 Three times to return to transmitter 1 2. Use OUT/+ key to view the MIN/MAX temperature and humidity data for the selected transmitter.

29 3. To reset the minimum and maximum temperature and humidity data, and the times at which they were recorded, press the SET key continuously for about 3 seconds. This will reset the MIN/MAX data recorded to the current time, date, temperature and humidity. The current time taken is the normal displayed time and does not regard the time zone set for the unit. Note: the MIN/MAX data for each transmitter needs to be reset separately. ABOUT THE OUTDOOR TRANSMITTER: Outdoor temperature The LCD display shows the current temperature and humidity at the location of the transmitter. The temperature and humidity is measured and transmitted to the Weather Station approximately every 4 seconds. The range of the transmitter may be affected by the temperature and humidity. At cold temperatures the transmitting distance may be decreased. Please bear this in mind when positioning the transmitter.

The LCD contrast on the unit will also be reduced when the batteries are reduced in power. LOW BATTERY INDICATOR Low battery indicator is displayed on the LCD when the batteries require changing. CHECKING FOR 868MHz RECEPTION If the outdoor temperature and humidity data are not being received within three minutes after setting up (or outdoor display always show "- -" in the outdoor section of the Weather station 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. 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. Should this happen accidentally then reset all units (see "Setting up" above) otherwise transmission problems may occur. The transmission range is around 100 meters from the Thermo-hygro transmitter to the Weather station (in open space).



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However, this depends on the surrounding environment and interference levels. If no reception is possible despite the observation of these factors, all system units have to be reset (see "Setting up" above).

**POSITIONING THE WEATHER STATION** The Weather station provides the option of table standing or wall mounting the unit. @@To wall mount: 1. @@2. @@@@Pull the stand out from the bottom center edge of the weather station, below the battery compartment. Once the foldout table stand is extended, place the weather station in an appropriate location.

**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 of 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. 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: Indoor : -9.9°C to +59.

9°C with 0.1° resolution C 14.2°F to 139.8°F with 0.2°F resolution ("OF.

L" displayed if outside this range) 31 -39.9°C to +59.9°C with 0.1° resoluti on C -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

or temperature is OF.L) Outdoor humidity range : 1% to 99% with 1% resolution (Display "1%" <1% and "99%" > 99%) Interior data checking intervals

Indoor Temperature : Every 15 seconds Humidity : Every 20 seconds Air pressure checking interval : Every 15 seconds Outdoor temperature and humidity

data checking interval: Every 4 seconds Transmission range : up to 100 meters (open space) Power consumption: (alkaline batteries recommended) Weather

station : 2 x C, IEC LR14, 1.5V Thermo-hygro transmitter : 2 x AA, IEC LR6, 1.5V Battery life : up to 12 months Dimensions (L x W x H): Weather station :

190.4 x 37 x 190.4 mm Thermo-hygro transmitter : 38.2 x 21.2 x 128.

3 mm Outdoor : **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. This product must however not be thrown in general rubbish collection points. As stated on the gift box and labeled on the product, reading the "User manual" is highly recommended for the benefit of the user. 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 not to be used for medical purposes or for public information. This product is only designed to be used in the home as indication of the future weather and is not 100% accurate. Weather forecasts given by this product should be taken only as an indication and not as being totally accurate.

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 consent of the manufacturer. For use in: Germany, Austria, UK.

, France, Belgium, The Netherlands, Italy, Spain, Denmark, Switzerland 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. 32 .



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