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## WIRELESS 868 MHz WEATHER STATION Instructions Manual

### INTRODUCTION:

Congratulations on purchasing this Weather Station with wireless 868 MHz transmission of outdoor temperature and display of indoor temperature and humidity, weather forecast icons and weather tendency indicators. It is further featuring a DCF-77 radio controlled clock with calendar display. With only four easy to use function keys, this innovative product is ideal for use in the home or office.



**« 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:**

First, insert the batteries in the transmitter (see "How to install and replace batteries in the Temperature Transmitter" below). 2. Within 2 minutes of powering up the transmitter, insert the batteries in the Temperature Station (see "How to install and replace batteries in the Weather Station" below). 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 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 31 4. 5. 6. 7. 8. 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. The outdoor temperature 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. Insert the batteries in 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 45 seconds after the Weather Station displays the information of the first transmitter. The outdoor temperature 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. 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 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.

Or immediately after reception of the second transmitter is finished. 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"). **32 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. **HOW TO INSTALL AND REPLACE BATTERIES IN THE WEATHER STATION** The Weather Station uses 2 x AA, IEC LR6, 1.

5V batteries. If the batteries need to be replaced, the low battery symbol will appear on the LCD. 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. **HOW TO INSTALL AND REPLACE BATTERIES IN THE TEMPERATURE TRANSMITTER** The Temperature Transmitter uses 2 x AA, IECLR6, 1.5V batteries. To install and replace the batteries, please follow the steps below: 1. Slide the battery cover downwards and remove. 2. Insert the batteries, observing the correct polarity (see marking). 3.

Replace the battery cover. 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 33 the Weather Station in the first three 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. **FUNCTION KEYS:** Weather Station: The weather station has four easy to use function keys. Setting Indoor Outdoor Channel SET key (Setting) . . . . Used to enter the set mode for the following functions: LCD contrast, Time zone, Time Reception ON/OFF, 12/24 hour display, Manual time, Year, Date, °C/°F, and Weather forecasting icon sensitivity settings. The year can only be displayed in the set mode (not displayed in normal mode) Used to toggle between the current/ minimum / maximum indoor temperature and humidity Press for over 3 seconds to reset the indoor maximum and minimum temperature and humidity records (will reset all records to current level) IN key (Indoor) 34 · Note: the Time/date information is only available for MIN/MAX temperature data, and will be changed to default time after the reset operation Change LCD contrast, time zone, Time Reception ON/OFF, 12/24 hour display, hour, year, month, day, °C/°F and weather forecasting icon sensitivity units in setting modes Note: in 24hr time display mode, the day is set by using the IN key. In 12hr time display mode, the month is set by using the IN key Used to toggle between the current / minimum / maximum outdoor temperature Press for around 3 seconds to reset the outdoor maximum and minimum temperature records (will reset all temperatures to current level of the relative transmitter being reset - each transmitter's data must be reset separately) Note: the time/date information of MIN/MAX data will be reset to default time as well.



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Change minute, month, day in setting modes Note: in 24hr time display mode, the month is set by using the OUT key. In 12hr time display mode, the day is set by using the OUT key Toggle between the outdoor Temperature Transmitters 1, 2 and 3 (if more than 1 transmitter is used) Exit manual setting mode OUT key (Outdoor) · · · CH key (Channel) · · 35 LCD SCREEN DCF Tower Icon (for time reception) Time Date Month Weather Tendency Icon Low battery indicator (weather station) Indoor Temperature in °C or °F Low battery indicator (transmitter) Outdoor Temperature in °C or °F Weather Forecast Icon Comfort indicator icon Indoor Relative Humidity % Outdoor reception signal\* Outdoor transmitter Identification number \* When the signal is successfully received by the Weather Station, the outdoor transmission icon will be switched on. (If not successful, the icon will not be shown on LCD). The user can then 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.

36 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 1500km radius of Frankfurt. Once the outdoor temperature is displayed on the Weather station, 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 02:00 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.

@@@A single daily reception is adequate to keep the accuracy deviation below 1 second. 37 MANUAL SETTINGS The following manual settings can be changed when pressing the SET key for: · LCD contrast setting · Time zone setting · Time reception ON/OFF setting the "Snooze setting " or exit the setting mode by pressing the CH key. SNOOZE SETTING Important: The snooze setting in this Weather Station will not have any effect in this unit performance. This feature is only available in enhance model with alarm function. @@To select °F (degree Fahrenheit): 1. @@2. @@Flashing 1. 2. Using the IN key to set the weather sensitivity level. @@@@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. INDOOR TEMPERATURE AND HUMIDITY READING WITH COMFORT LEVEL INDICATOR Minimum display Indoor Temperature in °C/°F Indoor Relative Humidity % Comfort level symbol The indoor temperature and humidity are detected automatically and displayed on the fourth section of the LCD. 44 THE COMFORT LEVEL INDICATORS Comfortable: Uncomfortable: A happy face icon "" indicating a temperature level between 20.0°C and 25.

9°C (68°F to 78.6°F) and humidity between 45% and 65%. A sad face icon " " indicating any value outside the comfortable range. TOGGING AND RESETTING THE INDOOR RECORDINGS To toggle between the indoor current, minimum and maximum temperature and humidity data and the times at which they were recorded, press the IN key: Once to show the minimum temperature and humidity values with time and date recorded Twice to show the maximum temperature and humidity values with time and date recorded Three times to return to the current time, date, temperature and humidity levels. Note: the Time/date information is only available for the MIN/MAX temperature data.

2. To reset the minimum and maximum temperature and humidity data and the times at which they were recorded, press the IN key continuously for about 3 seconds. This will reset all minimum and maximum data recorded to the current time, date, temperature and humidity. 1. OUTDOOR TEMPERATURE Maximum Display Outdoor reception signal Number showing the transmitter unit (only if there is more than one transmitter) Outdoor Temperature in °C or °F The fifth LCD section shows the outdoor temperature and a reception signal. A number beside the temperature will also show if more than one transmitter is used. 45 TOGGING AND RESETTING THE OUTDOOR RECORDINGS: 1. To toggle between the outdoor current, minimum and maximum temperature data and the times at which they were recorded, press the OUT key: Once to show the minimum temperature value with time and date recorded Twice to show the maximum temperature value with time and date recorded Three times to return to the current time, date and temperature level 2. To toggle between transmitters, press the CH key: Once to show transmitter 2 Twice to show transmitter 3 Three times to return to transmitter 1 Note: The transmitter number will only be displayed if there is more than one transmitter detected. 3.

To reset the minimum and maximum outdoor temperature data and the times at which they were recorded, press the OUT key continuously for about 3 seconds. This will reset all minimum and maximum data recorded to the current time, date and temperature. Note: the MIN/MAX data for each transmitter needs to be reset separately. TO VIEW THE MIN/MAX DATA FROM DIFFERENT TRANSMITTERS When more than 1 transmitter used: 1. To toggle between transmitters, press the CH key: Once to show transmitter 2 Twice to show transmitter 3 Three times to return to transmitter 1 2.



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Use OUT key to view the MIN/MAX temperature and humidity data for the selected transmitter. 3. To reset the minimum and maximum temperature and humidity data, and the times at which they were recorded, press the OUT key continuously for about 3 seconds. This will reset the MIN/MAX data recorded to the current time, date, temperature and humidity. Note: the MIN/MAX data for each transmitter needs to be reset separately.

46 LOW BATTERY INDICATOR Low battery indicator is displayed on the LCD when the batteries require changing. TEMPERATURE 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.

868 MHz RECEPTION: If the outdoor temperature data is 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 transmitter should be at least 1.5 to 2 meters away from any interfering sources such as computer monitors or TV sets. 2.

Avoid placing the receiver onto or in the immediate proximity of metal window frames. 3. Using other electrical products such as headphones or speakers operating on the same signal frequency (868MHz) may prevent correct signal transmission and reception. 4. Neighbors using electrical devices operating on the 868 MHz signal frequency can also cause interference. Note: When the 868MHz signal is received correctly, do not re-open the battery covers 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 about 100 m from the transmitter to the Weather Station (in open space). 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).

47 POSITIONING THE WEATHER STATION The Weather Station comes attached with a removable table stand, which provides the option of table standing or wall mounting the unit. Before wall mounting, please check that the outdoor temperature can be received from the desired locations. To wall mount: 1. Fix a screw (not supplied) into the desired wall, leaving the head extended out by about 5mm. 2. @@@@2. @@Clip the sensor onto the bracket. 48 Note: Before permanently fixing the transmitter wall base, place all units in the desired locations to check that the outdoor temperature and humidity readings are receivable. In event that the signal is not received, relocate the transmitter(s) or move them slightly as this may help the signal reception. The mounting surface can, however, affect the transmission range.

If for example the unit is attached to a piece of metal, it may then either reduce or increase the transmitting range. For this reason, we recommend not placing the unit on any metal surfaces or in any position where a large metal or highly polished surface is in the immediate proximity (garage doors, double glazing, etc.). Before securing in place, please ensure that the Weather station can receive the 868MHz signal from the Temperature transmitter at the positions that you wish to situate them. The Temperature Transmitter simply clicks in or out of the holder.

When inserting or removing the Temperature Transmitter from the wall holder please hold both units securely. 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 displays and casings, use a soft damp cloth only. Do not use solvents or scouring agents as they may mark the LCD and casing. 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 its original point of purchase for repair by a qualified engineer. Opening and tampering with the units may invalidate its 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. 49 SPECIFICATIONS: Temperature measuring range 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) -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) 1% to 99% with 1% resolution (Display "-. -" if temperature is OL.F; display "-. -" if < 1% and "99%" if > 99%) Outdoor : Indoor humidity range : Interior data checking intervals Indoor Temperature : Every 15 seconds Humidity : Every 20 seconds Outdoor temperature data checking interval: Every 4 seconds (or every 15 minutes if data are lost and display "--.") Transmission range : up to 100 meters (open space) Power consumption: Weather Station : 2 x AA, IEC LR6, 1.5V Temperature Transmitter : 2 x AA, IEC LR6, 1.5V Battery life cycle : approximately 24 months (Alkaline batteries recommended) Dimensions (L x W x H) Weather Station : 90 x 30 x 138 mm (table stand excluded) Temperature Transmitter : 38. 2 x 21.2 x 128.3 mm (wall bracket excluded) 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 50 . . . . . 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.



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*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. 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. 51 .*



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