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You can read the recommendations in the user guide, the technical guide or the installation guide for LA CROSSE TECHNOLOGY WS7038. You'll find the answers to all your questions on the LA CROSSE TECHNOLOGY WS7038 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 WS7038**  
**User guide LA CROSSE TECHNOLOGY WS7038**  
**Operating instructions LA CROSSE TECHNOLOGY WS7038**  
**Instructions for use LA CROSSE TECHNOLOGY WS7038**  
**Instruction manual LA CROSSE TECHNOLOGY WS7038**

## Rain Monitor

### Instruction Manual

This operation manual is part of this product package. It contains important notes for setup and operation. Therefore please keep this manual in a safe place for later reference. Please ensure furthermore that this operation manual stays with the product in case it is forwarded to any third party.

#### Introduction

Dear Customer,

We want to thank you for purchasing this Rain Monitor.

The construction of this unit corresponds to National and European requirements with regard to electro-magnetic compatibility. This unit carries the CE marking. Conformity has been proven; the respective commentaries and documents are deposited with the manufacturer.

In order to maintain this condition and guarantee safe operation you as the user are requested to pay attention to this operation manual!

With this product you have purchased a product laid out and manufactured using state-of-the-art technologies. The operation of this product is simple and straightforward. Nevertheless please read this operation manual carefully for better understanding and optimum benefits of all its features.

#### Intended Use

The Rain Monitor (Base Station and Rain Gauge) is used to measure the rainfall volume around the home. This product is designed to operate on two 1.5 V batteries per unit (battery types see item "Specifications"). Operation of the Base Station is only allowed in closed and dry rooms, i.e. not in open space. Contact to humidity must be avoided.

Any other use but the one described in this chapter will lead to damage of the product. Furthermore this may lead to dangers, as there are short circuit, fire, electrical shock, etc. The entire product may not be opened, altered or modified in any way.

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*Manual abstract:*

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*... 11 Intended Use .*

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. 13 RAIN/SET Key .....

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..... 18 Introduction Dear Customer, We want to thank you for purchasing this Rain Monitor. The construction of this unit corresponds to National and European requirements with regard to electro magnetic compatibility. This unit carries the CE marking. Conformity has been proven; the respective commentaries and documents are deposited with the manufacturer. In order to maintain this condition and guarantee safe operation you as the user are requested to pay attention to this operation manual! With this product you have purchased a product laid out and manufactured using state-of-the-art technologies.

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.. 18 Data Transmission and Reception ..

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bar graph functions will sequentially be displayed in the lower part of the LCD and will then be repeated: · DAILY DAILY shows the rainfall progress in form of vertical bars running from right to left for the past 6 days and the current day. Every day at midnight (00:00 hours) the bars will shift one place to the left. WEEKLY WEEKLY shows the rainfall progress in form of vertical bars running from right to left for the past 6 weeks and the current week. Every Monday at midnight (00:00 hours) the bars will shift one place to the left. MONTHLY MONTHLY shows the rainfall progress in form of vertical bars running from right to left for the past 6 months and the current month. @@@@Note! @@@@The correct polarity is printed inside the battery compartment. @@3 seconds). @@@@Ensure that the unit is protected from wind so it cannot tip over. Screws provided with the shipment allow secure mounting. Important Note! @@Adjust the Rain Gauge evenly (e.g. by use of a spirit-level) in order to ensure safe operation of the internal seesaw. · · · Using a coin or an appropriate tool (screwdriver) open the battery compartment in the base of the Rain Gauge. Observing the correct polarity insert two type AA, IEC LR6, 1.5V batteries into the battery compartment. The correct polarity is printed inside the battery compartment. Rescrew the battery cover of the Rain Gauge. Ensure that the cover is flat and sufficiently tight secured. This will prevent humidity from entering the battery compartment and subsequently damage the unit. Hold on; · · Resetting · · Remove the batteries from both the Base Station and the Rain Gauge. Wait at least 30 seconds and then repeat the procedure specified in item "Getting started". Rain Alarm ON/OFF · · · After confirmation of the weekday setting with the "RAIN/SET" key the display will show a flashing "AL/OFF" (rain alarm switched OFF). Using the "HISTORY/+" key the alarm can now be switched "ON" or "OFF" as desired. Press the "RAIN/SET" key for confirmation. This will automatically enter the "Resetting Total Rain Amount" mode. Always wait at least 30 seconds after removing the batteries before reinserting them, otherwise start up and transmission problems may occur. Also remember, when inserting the batteries, that both units have to be reset and to always reinsert the batteries to the Base Station first.



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*Battery Change It is recommended to replace the batteries in all units on an annual basis to ensure optimum accuracy of these units.*

*A battery change should also be performed when the transmission distance of the 433MHz signal starts to decrease or the Rain Gauge is no longer recognized by the Base Station. Note! In the event of resetting, i.e. changing batteries in any of the units, all units need to be reset. This is because a random security code is assigned by the Rain Gauge at start-up and this code must be received and stored by the Base Station in the first three minutes of power being supplied to it. After inserting batteries into the rain gauge, please wait at least 5 seconds, before proceeding to the testing of the tipping bucket of the rain gauge. If inserting the batteries within 5 seconds to test the rain gauge, it may cause reading errors of the rain gauge. According to the Used Battery Regulation the end user is committed by law to return all used up batteries (button cell to lead storage battery). Disposal through the garbage is strictly forbidden. Please participate in the preservation of the environment and dispose of your used up batteries only at your point of purchase or the authorized depot of your community.*

*Note! If the alarm is switched ON, an alarm will sound if it starts to rain. This alarm will switch off automatically after about 150 seconds. It can however be switched off ahead this time by pressing any key. If it starts to rain again after a raining break, the alarm will only sound if the break has been longer than 80 minutes. Resetting Total Rain Amount · · After confirmation of the Rain Alarm ON/OFF setting with the "RAIN/SET" key the display will show the flashing total rain balance (TOTAL).*

*If desired, the total rain amount can be reset to zero by use of the "HISTORY/+" key. After this final setting has been entered, the programming mode can be exited by pressing the "RAIN/SET" key one more time. Note! The total rain amount (TOTAL) will constantly accumulate unless the value of the total rain amount of the Rain Monitor is reset or its batteries need to be changed. A random value of total rain amount may be displayed at first start up due to initialization of the Rain Gauge. For this reason it is recommended to reset the total rain amount after first start up or after a battery change.*

*Data Transmission and Reception Reception Criteria · During normal operation the Base Station of the Rain Monitor attempts to receive the current data from the Rain Gauge every 5 minutes. At any reception attempt the reception symbol (Antenna) is displayed 17 18 on the LCD. All data gathered by the Rain Gauge will only be taken over by the Base Station if this reception symbol is shown. The Rain Gauge however transmits data every one minute as long as there is no rain and immediately when it senses rain. If rain data cannot be received at three attempts in a row, then the symbol „- -“ will be shown on the LCD. If this is the case, a reset as described in Item "Resetting" must be performed. · · During programming mode and during numeric display of the rainfall bar graphs (see "Numeric Display") there is no reception of the transmitted data. If any key is being pressed there will be no reception of data until the key is released again. Technical Specifications Recommended Operating Temperature Base Station Rain Gauge Rainfall Bar Graphs Data Checking Intervals Base Station (Signal Reception) Rain Gauge Transmission Frequency Transmission Range (max.) Power Supply (Alkaline batteries recommended) Base Station Rain Gauge Dimensions (L x W x H) Base Station (without stand) Rain Gauge : : 0°C to +50°C 0°C to +50°C For the past 6 days, weeks or months plus the current day, week or month Every 5 minutes At no rain every minute, immediately if raining 433.*

*92MHz 25 meters : : : 433MHz Reception The Base Station of the Rain Monitor will automatically receive the data transmitted by the Rain Gauge after insertion of batteries. If the rain data is not being received latest 15 minutes after setting up or after it starts to rain (the display shows "- - -"), then please check the following points: 1. 2. 3. 4. The distance of the Rain Monitor (Base Station and Rain Gauge) to any interfering sources such as computer monitors or TV sets should be at least 1.5 to 2 meters. Avoid placing the Rain Monitor 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 (433MHz) may prevent correct signal transmission and reception.*

*Neighbours using electrical devices operating on the same 433MHz signal frequency can also cause interferences.*

*: : : 2 x Type AAA, IEC LR3, 1.5V batteries 2 x Type AA, IEC LR6, 1.5V batteries 90 x 21 x 105mm 132mm Dia. x 185mm Additional Notes · · The technical specifications of this product may at any time be changed without prior notice. No part of this operation manual may be copied or reproduced without written consent of the manufacturer.*

*Note: When the 433MHz signal is received correctly, do not re-open the battery covers of either the Base Station or Rain Gauge, as the batteries may spring free from the contacts and force a false reset of all data. Should this happen accidentally then reset all units (see "Resetting") otherwise transmission problems may occur. The transmission range in open space is around 20 - 25 m from the Rain Gauge to the Base Station. However, this depends on the surrounding environment and interference levels. @@In such a case do also check the batteries.*

*Important Note! @@@@Do not use abrasives or solvents. Ensure that the Rain Gauge does not collect leaves or other dirt. Remove the funnel from the Rain Gauge every now and then and clean it under running water. Also clean the seesaw of the sensor with a damp cloth and check by lightly tapping with your finger that it can move freely from side to side. Do not clean the bottom part of the Rain Gauge under running water. This may bear the danger of water entering the unit's electronic parts. Do not immerse the Base Station in water. Please do not attempt any repairs on your own. It is recommended to have repairs only performed by trained personnel at the point of purchase. Opening or improper handling of the units will void the warranty.*

*Disposal Dispose of the no longer operable Rain Monitor only in accordance with the valid legal regulations. 20 19.*



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