



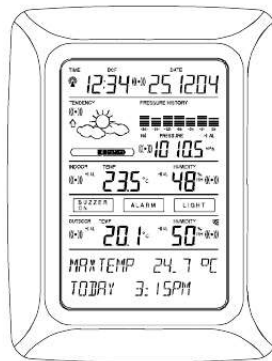
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You can read the recommendations in the user guide, the technical guide or the installation guide for LA CROSSE TECHNOLOGY WS3500. You'll find the answers to all your questions on the LA CROSSE TECHNOLOGY WS3500 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual LA CROSSE TECHNOLOGY WS3500**  
**User guide LA CROSSE TECHNOLOGY WS3500**  
**Operating instructions LA CROSSE TECHNOLOGY WS3500**  
**Instructions for use LA CROSSE TECHNOLOGY WS3500**  
**Instruction manual LA CROSSE TECHNOLOGY WS3500**

## TOUCH SCREEN WEATHER STATION MODEL WS-3500

### Operation Manual



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..... Liability Disclaimer 29 1 General Important Note: Before inserting batteries to the units, please carefully read the operation manual. The shipping contents of the Touch Screen Weather Station WS-3500 include a Base Station (Receiver), a Thermo-Hygro Sensor (433 MHz Transmitter), the respective Connecting Cables, an AC/DC Mains Adapter and a PC Software Package on CD-ROM.

The Base Station is equipped with a Touch Screen LCD Monitor and allows by use of comprehensive menu control the display of a vast variety of time and weather data (from top to bottom): · Radio Controlled Time (Time) · Calendar (Date) · Weather Forecast (Tendency) · Air Pressure and Air Pressure History (Pressure, Pressure History) · Indoor Temperature and Humidity (Indoor Temp, Humidity) · Outdoor Temperature and Humidity (Outdoor Temp, Humidity) Furthermore the display of a number of additional data can be realised by use of certain switching combinations (see further down). Note: In case the menu is used all these indications are temporarily replaced by the menu steps directly operable from the text section. As an important feature exceeding the display on the LCD Monitor the Weather Station allows by cable and software the readout of all measured and displayed time and weather data in form of complete history data sets, their processing and graphic presentation on a PC as well as their tie on to Internet Web Sites. 30 2 Important Touch Screen Operating Notes generally applicable All actions and functions of the Weather Station are started on the Touch Screen by slightly touching (not pressing!) the switching areas appearing in star (\*) symbols (only in the text section at the bottom of the LCD) or the displayed values respectively. @@@@ Both methods allow the connection of Thermo-Hygro Sensor and Base Station by cable or by 433 MHz radio signal.

Note: When putting the Weather Station into operation it is important to tentatively perform in close proximity (e.g. on a table) a complete wiring and setup of the system in the configuration of its prospective use. This measure serves to test all components for correct function before placing and mounting them at their final destinations. 32 3.

1 Wiring the System AC/DC adapter Thermo hygro sensor PC COM Port cable Wireless Transmission Direct cable connection The direct cable connection of Thermo-Hygro Sensor and Base Station can be used in case that: the flexibility of 433 MHz radio transmission is not needed and data transmission absolutely free of any environmental interferences is wanted. 3.2 Power Supply The provision of power to the Weather Station can be performed by use of batteries or by AC/DC mains adapter. 33 3.2.1 · Batteries: First insert two Type AA 1.5 V batteries into the battery compartment of the Thermo-Hygro-Sensor. Immediately following this insert three Type AA 1.5V batteries into the battery compartment of the Touch Screen Weather Station. Please help in the preservation of the environment and return used batteries to an authorized depot.

3.2.2 · AC/DC Mains Adapter: Firstly also insert two Type AA 1.5 V batteries into the battery compartment of the Thermo-Hygro-Sensor. Immediately following this connect the AC/DC mains adapter to the Base Station and then plug it into a regular mains outlet. Note: In both cases it is important to observe this order of succession since the Sensor will send an identification code which has to be received and stored by the Base Station within the first few minutes of operation. After doing this full operation of the entire Weather Station System is ensured. 34 3.2.3 Cable Connection: One further feature of the direct cable connection mentioned in Item 3.

1 above is that in case of AC/DC adapter operation power is provided not only to the Base Station but to the Thermo-Hygro Sensor as well by just this AC/DC adapter. Note: System operation with cable connection while at the same time providing power to the Base Station solely by batteries is not recommended due to the considerably higher power consumption. The batteries may however remain in the unit for emergency supply in case of a power failure. A change from cable operation to 433 MHz radio transmission or vice versa is possible in any case since the Weather Station will recognize this change and will

automatically switch to the appropriate operating mode. 3.

3 System Start After inserting the batteries respectively connecting the AC/DC adapter the LCD of the Weather Station will for a few seconds display all possible display segments for checking. Immediately after this the unit will enter the so called play mode during which for about 15 minutes all measured and received weather data are being switched through, updated and displayed. During this time period there will be no reception of the DCF77 time information.

Note: The play mode phase allows the user of the Weather Station to check all cables for correct connection and all components for correct function. After completing the play mode the Touch Screen Weather Station will automatically switch to the normal display mode from which all further settings can be performed by the user.

At this point of time the unit will also automatically start reception of the DCF77 time information. Important Note: Reception of the radio-controlled time information will only take place after completion of the play mode (approx. 15 minutes). In case the user wants to start the system without waiting for 35 completion of the play mode it can be terminated prematurely by once touching the TIME display in the upper left corner of the LCD. Prior to manual setting or reception of radio-controlled time information there will be no recording of weather history data. 3.4 Placement After the Weather Station has been checked for correct function with regard to the above points and found fit, the mounting of the system components can take place. It must be ensured however that all components work properly together at their chosen mounting or standing locations.



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If e.g.

there appear to be problems with the 433 MHz radio transmission they can mostly be overcome by slightly moving the mounting locations. Note: Commonly the radio communication between receiver and transmitter in the open field reaches distances of about maximum 100 meter providing that there are no interfering obstacles such as buildings, trees, vehicles, high voltage lines, etc. Radio interferences as they are created by PC screens, radios or TV sets can in bad cases entirely cut off radio communication. Please take this into consideration when choosing standing or mounting locations. 4 Setting Up: Note: Because of the default settings already determined by the manufacturer it may not be necessary for the majority of users to perform - outside possibly the Relative Air Pressure (see further down) - any further basic settings. Changes however can easily be realized if desired. For basic settings the following menu is started by touching the Touch Screen in the center of the text display (last two lines on the LCD). @@@@ @@@@ g. @@@@ @@@@ Remove the battery and perform system start again. See "3 - Putting in Operation" paragraph.

@@@@ @@@@ Note: During individual displays of the stored Min/Max values of particular weather data, the t.1 Air Pressure (Pressure) Example for Activating the Displays of Stored Maximum Values Call up the menu on the text section by touching the PRESSURE section. Start with MAX in the menu section. @@@@ @@@@ @@@@ Terminate with EXIT. @@@@ @@@@ @@@@ It is thus recommended to either operate the Weather Station on the included AC/DC adapter or entirely deactivate the EL backlight (see above).

11.2 Buzzer The buzzer for the acoustic acknowledgement or alarm signals of the Weather Station can be switched ON or OFF by touching the BUZZER section. The switching condition ON or OFF is displayed directly in the BUZZER section as well as for about 30 seconds in the text section (Enabled/Disabled). 11.3 Alarm Upon touching the ALARM display key will numbered and sorted according to the time of appearance with NEXT all those set and activated alarms (outside the wake-up alarm) be displayed that have reached an alarm condition since their last deletion.

Here for every respective alarm the time and date of appearance can be displayed by touching ALARM. 12 PC Connection As an important feature exceeding the mere display on the Touch Screen the Weather Station allows the read-out of all measured and displayed time and weather data in form of complete history data sets on a PC. 12.1 Data Storage For a comprehensive weather history the Base Station allows the internal storage of up to 1750 complete sets of weather data with time and date. These data sets are being stored in non-volatile ring buffer memory (EEPROM) and will not be lost even in case of an interruption of power supply (e. g. change of batteries). In case the memory capacity of the Weather Station is exhausted the oldest data sets stored will be overwritten by the new ones entered. 48 12.2 Data Recall The weather data stored can only be read out, processed and displayed by means of a PC.

Also the settings of the storing intervals from 1 minute to 24 hours for the storage of data sets can only be performed by means of a PC. 12.3 Connections and Software The wiring between Weather Station and PC takes place by means of an included COM port cable. Furthermore the "Heavy Weather Pro 3500" software package also included in the shipping contents must be installed on the PC. This software allows the display of all present weather data with graphic symbols. It further allows the display, storage and printing of history data sets, whose volume exceeding the maximum 1750 data sets of the Weather Station is only limited by the capacity of the PC's main memory. Furthermore the present weather data can be tied on to web sites by means of the "Web Publisher" software. History data can be displayed as diagrams and graphs by means of the "Heavy Weather Pro" software. Important note: For further details to the subject "PC Connection" and Program utilisation, please see the "Help" File (under the Question mark button in menu bar) of the Heavy Weather Program. (The Wind and Rain measurements are not applicable to the model WS-3500.

) 49 13 13.1 Technical Data Outdoor Data: Transmission Range in Open Field: ....

.....  
..100 m max. Measuring Intervals Outdoor Data:.....

.....every 128 s Temperature Range: -40 °C to +59.9 °C (Display "OFL" outside this range) Resolution: ...

.....0.1 °C Measuring Range Rel. Humidity:..

.....  
...1% to 99% Resolution: ..

..1% 13.2 13.3 13.4 Data Transmission by 433 MHz Signal: Data Transmission by Cable: Indoor Data: Measuring Intervals Thermo-Hygro Sensor: 128 s Measuring Intervals Thermo-Hygro Sensor: 128 s Measuring Intervals Indoor Data: .....

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every 20 s Temperature Range: .....

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....-40 °C to +59.9°C (Display "OFL" outside this range) Resolution: .....

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.....0.

*1 °C Measuring Range Rel. Humidity:....*

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*..1% to 99% Resolution: .....*

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*.1% Measuring Range Air Pressure: .....*

*.....300 hPa to 1099 hPa Resolution: ..*

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*.....0.1 hPa Alarm Duration: ..*

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*about 2 minutes 13.5 Power Supply: Base Station: Batteries: ....*

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*...3 x 1.5 V Batteries Type AA, IEC LR6 (Alkaline Batteries recommended, Life Cycle without EL backlight approx. 1 year). When batteries require 50 replacement for the base station, the low battery indicator will light up on the LCD. or Mains Voltage: ...*

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*.AC/DC Adapter INPUT 230VAC / 50Hz (use only the included Mains Adapter. Recommended for PC Connection and frequent use of EL Backlight) Thermo-Hygro-Sensor: Batteries: ...*

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*.....2 x 1.5 V Batteries Type AA, IEC LR6 (Alkaline Batteries recommended, Life Cycle approx. 1 year) or .....*

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56.2 x 70.5 x 137 mm 51 14 · *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. @@All electronic instruments must from now on be recycled. @@@@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.*

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