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You can read the recommendations in the user guide, the technical guide or the installation guide for LA CROSSE TECHNOLOGY WS1501. You'll find the answers to all your questions on the LA CROSSE TECHNOLOGY WS1501 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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868MHz WEATHER STATION Instruction Manual

INTRODUCTION:
Congratulations on purchasing the state-of-the-art weather station, an example of excellent design and innovative measuring techniques. Featuring time, date, calendar, weather forecast, wind direction, wind gust and wind speed, air/fall, indoor/outdoor temperature and outdoor humidity, air pressure and various alarm settings for different weather conditions, this weather station will provide you with reliable weather information and weather forecast. Page after page, you will discover that the operation of your weather station is really simple.

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:

Avoid direct rain and sunshine) The Wind Sensor · · Connected to the thermo-hygro transmitter by cable Can be installed onto a mast or a horizontal panel
The Rain Sensor · · Remote transmission of the rainfall data to the Weather Station at 868 MHz To be mounted onto a horizontal panel 75 SETTING UP:
Wireless transmission at 868 MHz Rain sensor to weather station Weather station Wireless transmission at 868 MHz - thermo-hygro transmitter to weather
station Rain sensor Wind sensor Cable connection between the wind sensor and the thermo-hygro transmitter Note: When putting the Weather Station into
operation, it is important to perform in close proximity (e.g. on a table) a complete wiring and set-up of the system. This step is important to test all
components for correct function before placing and mounting 76 them at their final destinations (See Positioning below). Spin the wind vane and tip the rain
gauge to test. Unwind the cables of the Wind sensor. Connect the Wind sensor to the Thermo1. hygro transmitter by plugging the connector heads into the
sockets of the Thermo-hygro transmitter. Cord should "click" into place. Socket for wind sensor 2.

3. First insert the batteries into the Thermo-hygro transmitter and Rain sensor (see "How to install and replace the batteries into the Thermo-hygro
transmitter" & How to install and replace batteries into the Rain sensor below). Then insert the batteries into the Weather Station (see "How to install and
replace the batteries into the Weather Station" below). Once the batteries are installed, all segments of the LCD will light up briefly and a short signal tone
will be heard. It will then display the time as 00:00, the date as 1.

1.05, the weather icons, and air pressure value. "- - -" will be shown for outdoor data. 77 4. 5.

6. 4. 5. Afterwards, the Weather Center will start receiving data from the transmitter. The transmission reception icon will be blinking to indicate that the
station is trying to get the thermo-hygro transmitter data. The outdoor temperature, humidity, wind data should then be displayed on the Weather Center. If
this does not happen after 45 seconds, the batteries will need to be removed from all units. You will have to start again from step 2. The transmitter reception
icon is now blinking again to indicate that the station is trying to get the rain sensor data. It will stop blinking once the rain sensor has been detected.

If this does not happen after 45 seconds, you will need to start again from step 2. You may need to check the cable for correct connection and all the
components for correct function by manually turning the wind-gauge by moving the windvane; tilting the rain sensor to hear the impact of the internal moving
seesaw, etc. (see Positioning below). Time and date shall be manually set (See Manual Setting below). After the Weather Station has been checked for correct
function with regard to the above points and found fit, the initial set up of the weather station system is finished and 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. If e.g. there appear to
be problems with the 868 MHz radio transmission, they can mostly be overcome by slightly changing the mounting locations. Note: The radio communication
between the receiver and the transmitter in the open field reaches distances of max 100 metres, provided there are no interfering obstacles such as buildings,
trees, vehicles, high voltage lines, etc.

78 8. Radio interferences created by PC screens, radios or TV sets can in some cases entirely cut off radio communication. Please take this into consideration
when choosing standing or mounting locations. · Note : After batteries are installed in the transmitter, install the batteries in the weather center to receive the
signal from the transmitters as soon as possible. If the weather center is powered more than 5 hours after the transmitter is powered, the weather center will
never receive signal successfully from the transmitters.

In this case, user will need to reinstall the batteries from all the transmitters to redo set-up procedure. After batteries are installed, there will be
synchronization between weather center and the transmitters. At this time, the signal reception icon will be blinking. When the signal is successfully received
by the weather center, the icon will be switched on. (If it is not successful, the icon will not be shown in LCD) So the 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 in progress. Transmitter signal reception icon · HOW TO INSTALL AND REPLACE
THE BATTERIES INTO THE WEATHER STATION 79 The Weather Station works with 3 x AA, IEC LR6, 1.5V batteries. When 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. Remove the battery
compartment cover. 2. Insert the batteries observing the correct polarity (see the marking in the battery compartment). 3. Replace the battery cover.

HOW TO INSTALL AND REPLACE BATTERIES INTO THE RAIN SENSOR Figure 1 Figure 2 Figure 3 The rain sensor works with 2 x AAA, IEC LR3, 1.5V
Alkaline batteries. To install and replace the batteries, please follow the steps below: 1. Press tabs back to unlock rain sensor cover. (Figure 1) 2. Lift rain
sensor cover to access battery compartment. (Figure 2) 80 3. 4. Insert the batteries, observing the correct polarity (see the marking in the battery
compartment). (Figure 3) Replace the battery cover and the rain cover onto 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 rain sensor at start-up and this code must be received and stored by the Weather Center in the first several minutes of power being
supplied to it. HOW TO INSTALL AND REPLACE THE BATTERIES INTO THE THERMO-HYGRO TRANSMITTER The outdoor Thermo-hygro transmitter
works with 2 x AA IEC LR6, 1.5V batteries. To install and replace the batteries, please follow the steps below: 1.

2. 3. 4. Uninstall the rain cover of the transmitter. Remove the battery compartment cover.

Insert the batteries, observing the correct polarity (see the marking in the battery compartment). Replace the battery cover and the rain cover onto the unit.

Note: 81 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 and rain sensor at start-up and this code must be received and stored by the Weather Station in the first several
minutes of power being supplied to it.



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BATTERY CHANGE: It is recommended to replace the batteries in all units every 24 months to ensure optimum accuracy of these units. (Battery life see Specifications) Please participate in the preservation of the environment. Return used batteries to an authorised depot. Note: The stored History record will not be kept after the battery change is done on the weather station. 82 **FUNCTION KEYS:** Weather Station: The Weather Station has 5 easy-to-use function keys. Set key + key ALARM key MIN/MAX key HISTORY key SET key · Press and hold to enter manual setting modes: LCD contrast, Manual time setting, 12/24 hour time display, Calendar setting, °C/°F temperature unit, Wind speed unit, Rainfall unit, Pressure unit, Relative pressure reference setting, Weather tendency threshold setting, Storm warning threshold setting and Storm Alarm On/ Off setting · Press to toggle between the display of Mode 1 or Mode 2:
Mode1: "Wind speed + outdoor temp + rel.

pressure" Mode 2: "Gust + Dew Point temp + rainfall" (Mode 2 displayed will be shown for 30 seconds. Then it will return to normal display automatically.) · In normal display mode, press and hold to switch on/ off the Buzzer · In the weather alarm setting mode, press and hold to adjust different alarm value and switch the alarm On/ Off · Press to activate the reset mode when max or min record is shown 83 · Stop the alarm during the time alarm or weather alarm ringing + key · · · · · In display Mode 1, press to toggle between the display of Preset alarm time, date, weekday + date, Indoor temp, or second in the time display In display mode 2, press to toggle between the display of Rel. Pressure, 24 hour rainfall and Total rainfall Press to adjust (increase) the level of different settings Stop the alarm during the time alarm or weather alarm ringing Press to confirm to reset the max/min record Press to reset the total rainfall amount to 0 HISTORY key · Press to display the weather data history records · Stop the alarm during the time alarm or weather alarm ringing · Press to exit manual setting mode and alarm setting mode ALARM key · Press to enter the time alarm and weather alarm setting mode · Confirm particular alarm setting · Press to exit the manual setting mode · Stop the alarm during the time alarm or weather alarm ringing · Press to exit max/ min record display mode MIN/MAX key · Press to display minimum and maximum records of various weather data · Press to adjust (decrease) the level of different settings 84 · Stop the alarm during the time alarm or weather alarm ringing LCD SCREEN The LCD screen is split into 5 sections displaying the foLET key to confirm the year and enter the month setting. The month digit will start flashing. 4. Use the + or MIN/MAX key to set the month. 5. Press the SET key to confirm the month and enter the date setting mode. The date digit will start flashing.

6. Use the + or MIN/MAX key to set the date. 7. Confirm all calendar settings with the SET key and enter the ° F C° TEMPERATURE UNIT SETTING. ° F TEMPERATURE UNIT SETTING C° Flashing The temperature display can be selected to show temperature data in ° or ° C F.

(default ° C) 1. The temperature unit is flashing 2. Use the + or MIN/MAX key to toggle between "°" or "° C" "F". Confirm with the SET key and enter the WIND SPEED UNIT SETTING 91 WIND SPEED UNIT SETTING Flashing The wind speed unit can be set as km/h (kilometre per hour), mph (mile per hour) or m/s (metre per second). The default unit is km/h.

1. Use the + or MIN/MAX key to toggle between the unit "km/h", "mph" or "m/s" 2. Confirm with the SET key and enter the RAINFALL UNIT SETTING. RAINFALL UNIT SETTING Flashing The total rainfall unit can be set as mm or inch. The default unit is mm. 1. Use the + or MIN/MAX key to toggle between the unit "mm" or "Inch" 2. Confirm the unit with the SET key and enter the RELATIVE AIR PRESSURE UNIT SETTING 92 RELATIVE AIR PRESSURE UNIT SETTING Flashing The relative air pressure can be set as hPa or inHg. The default unit is hPa. 1.

Use the + or MIN/MAX key to toggle between the unit "hPa" or "inHg" 2. Confirm the unit with the SET key and enter the RELATIVE PRESSURE REFERENCE VALUE SETTING. RELATIVE PRESSURE REFERENCE VALUE SETTING Note: The default reference pressure value of the barometer is 1013 hPa when batteries are first inserted. For an exact measurement, it is necessary to first adjust the barometer to your local relative air pressure (related to elevation above sea level). Ask for the current atmospheric pressure of your home area (Local weather service, www, optician, calibrated instruments in public buildings, airport). The relative air pressure can be manually set to another value within the range of 919 to 1080 hPa (27.14 to 31.90 inHg) for a better reference. Flashing 93 1. 2.

3. The current relative pressure value will start flashing Use the + or MIN/MAX key to increase or decrease the value. Keep holding the key will allow the value to increase faster. Confirm with the SET key and enter the WEATHER TENDENCY THRESHOLD VALUE SETTING. Note: This calibration facility is useful for those users living at various elevations above sea level, but wanting their air pressure display to be based on sea level elevation.

WEATHER TENDENCY SENSITIVITY LEVEL SETTING blinkend You may select a definite switching sensitivity value, 2, 3, 4 hPa for the change in the display of weather icons. This represents the "sensitivity" of the weather forecast (the smaller the value selected, the more sensitive the weather forecast). The default value is 3 hPa. Select lower numbers for high humidity areas, i.e.

Oceanside. Select high numbers for arid areas, i.e. desert. 94 1. 2. 3. The sensitivity value will start flashing Use the + or MIN/MAX key to select the value. Confirm with the SET key and enter the STORM WARNING SENSITIVITY SETTING. STORM WARNING THRESHOLD VALUE SETTING You may also define a switching threshold value for the Storm warning display at a decrease of air pressure from 3 hPa to 9 hPa over 6 hours (Default 5 hPa).

blinkend 1. 2. 3. The threshold value will start flashing. Use the + or MIN/MAX key to select the value. Confirm with the SET key and enter the STORM ALARM ON/ OFF SETTING. STORM ALARM ON/ OFF SETTING You may also choose to switch On or Off the acoustic Storm warning alarm (Default OFF). 1. The digit "AOF" will start flashing. 2.

Use the + or MIN/MAX key to switch On or Off the alarm. ("AOF" = OFF; "AON" = On) 3. Confirm with the SET key and the normal display mode will be shown. 95 Flashing Note: In case a storm warning alarm is activated, the downward weather tendency arrow will be flashing.



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The bar graph of the electronic barometer shows the air pressure history of the past 12 hours in five 3-hour steps. Air pressure changes in inHg Air pressure changes in hPa 106 The horizontal axis represents the last 12 hours air pressure recording (-12, -9, -6, -3 and 0 hour). The bars are plotted at each of the 5 steps and give the trend over the recorded period.

The scale on the right compares the result. The "0" in the middle of this scale determines the current air pressure. The vertical axis represents the air pressure changes in hPa (+4, +2, 0, -2, -4. "0" represents the current air pressure). The newly measured pressure was compared to the previously recorded pressure reading.

The pressure change is expressed by the difference between the current ("0h") and the past readings in division of ± 2 hPa or ± 0.06 inHg. If the bars are rising it indicates that the weather is getting better due to an increase in air pressure. If the bars go down it indicates a drop of the air pressure and the weather is expected to get worse from the present time "0". At every full hour the current air pressure is used as a basis for the display of a new graph bar.

The existing graph is then moved one column to the left. Note: For accurate barometric pressure trend, the Weather Station should operate at the same altitude. For example, it should not be moved. Should the unit be moved, for instance from the ground to the second floor of the house, the readings for the next 48-60 hours shall be discarded. WIND DIRECTION AND WIND SPEED MEASUREMENT In normal display mode, the second section of the LCD shows the following wind data. · Wind direction (shown on the a compass scale of 16 divisions) and wind speed/ gust in Beaufort scale · Wind chill in °C or °F ·

Wind Speed in km/h, mph or m/s 107 · Gust in km/h, mph or m/s (displayed when in Mode 2, by pressing the SET key shortly) Text showing Wind speed in Beaufort scale bft Pointer indicates the currently detected wind direction HIAL This alarm symbol indicates that the alarm is set On Wind chill Wind speed or Gust will be shown RAINFALL MEASUREMENT The total rainfall and 24 hour rainfall measurement is displayed in the fourth section of the LCD, in the unit of mm or inch. To View the 24 hour rainfall or the Total rainfall reading: 1. In normal display press SET key once and the display will shift to Mode 2. 2.

Press + key consecutively key to toggle between the 24 hour rainfall, Total rainfall and Rel.

pressure reading. 108 24 hour rainfall icon 24h 24 hour rainfall amount Total rainfall icon Total rainfall amount VIEWING THE HISTORY DATA The weather station can store up to 140 sets of weather data which are recorded automatically at 3-hour intervals after the weather station is powered up, at the nearest time of 0:00, 03:00, 06:00, 09:00, 12:00, 15:00, 18:00 and 21:00. For instance, if user has manually set the time as 14:52 after installing batteries, the first history record will be made at the coming 15:00 automatically. Then the second record will be on 18:00 and so on. Each weather record includes the

Wind direction, Wind speed/ gust in Beaufort scale, Wind chill temperature, wind speed/gust, dew point, Outdoor temp and humidity, relative pressure, 24-hour rainfall and total rainfall, pressure history and weather tendency. Also, the time and date of recording will be displayed. 109 Note: In order to acquire the correct time of recording of the history records, you shall manually set the current time as soon as installing batteries to the weather station.

Afterwards, you should avoid changing the pre-set time as it will also alter the recorded "time of recording" of each history record, which may lead to confusion. To view the weather history: 1. In normal display, press the HISTORY key.

The latest weather record will be shown with the date and time of recording. The "HISTORY" icon will be displayed at the bottom of the LCD. 2. When viewing History records, user may shift to see the Mode 1 or Mode 2 data by pressing the SET key. (Mode 1: with wind speed + outdoor Temp + Rel. pressure; Mode 2 : with wind gust + Dew point + rainfall data) Note: If user wants to choose to view total rainfall or 24-hour rainfall in history records, he shall first in normal display choose to show the particular rainfall data, the press History key and SET key to view the particular rainfall data in History records. 110 HISTORY icon 3. When viewing History records, press MIN/ MAX to view older records. (Press MIN/MAX and + key to view "Previous" and "Next" record respectively. The records are made at 3-hour intervals) The stored history records will not be retained after battery change or whenever battery is removed.

The total rainfall value will be exhibited in whole number (no decimal place) in the history record. Note: · · 111 VIEWING THE MAXIMUM/ MINIMUM WEATHER DATA The weather station will record the maximum and minimum value of the various weather data with time and date of recording automatically. The following stored maximum and minimum weather data can be viewed by pressing the MIN/MAX key in normal display mode. 1. Min outdoor temperature with the date and time of recording Time and date or recording MIN outdoor temperature value MIN icon 2. Max outdoor temperature with the date and time of recording 112 3. Min dew point temperature with the date and time of recording DATE DEW POINT MIN Dew Point temp MIN icon 4. 5. Max dew point temperature with the date and time of recording Min outdoor humidity with the date and time of recording 113 6. Max outdoor humidity with the date and time of recording Time and date or recording MAX outdoor humidity value MAX icon 114 7.

Min Wind chill temperature with the date and time of recording Time and date or recording MIN wind chill value MIN icon 8. 9. Max Wind chill temperature with the date and time of recording Min Relative pressure with the date and time of recording 115 10. Max Relative pressure with the date and time of recording Time and date or recording MAX relative pressure value MAX icon 116 11. Maximum wind speed with the date and time of recording Time and date or recording MAX wind speed value MAX icon 117 12. Maximum Gust with the date and time of recording Time and date or recording GUST MAX Gust value MAX icon 118 13. Max 24 hour rainfall with the date and time of recording The 24 rainfall value is counted from this time and date 24 hour rainfall icon 24 h 24 hour rainfall amount RESET THE MAXIMUM AND MINIMUM WEATHER DATA To reset the aforementioned maximum or minimum weather data 1. to 13., you shall need to reset each of the data independently. 1.

Press MIN/MAX key to show the desired weather data.



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For instance, if you want to reset the minimum humidity, in the normal display you shall press the MIN/MAX key five times to show the min humidity value. 2.

Press and hold the SET key for about 2 seconds, then the "RESET" icon will appear at the bottom part of the LCD. 119 3.

4. Press the + key once, then the stored value will be reset to the current value and current time. Press the ALARM or HISTORY key to return to normal display mode. 14. Total rainfall amount The total rainfall measurement is displayed in the fourth section of the LCD, in the unit of mm or inch.

It shows the total rainfall accumulated since last reset of the weather station. In normal display mode, press the MIN/MAX key fourteen times to show the total rainfall value. The "RESET" icon will also be shown at the same time. The total rainfall value is counted from this time and date Total rainfall icon Total rainfall amount 120 To reset the rainfall reading, press the + key once when the Rainfall value and "Reset" icon is shown. Then the total rainfall amount will be reset to 0, and the time updated to current time. Note: After power up, the time and date and total rainfall is displayed as "- - -". After time is adjusted manually, the set time will be shown. SWITCHING ON/OFF THE BUZZER User may choose to turn off the buzzer so that when the time alarm is switched on and activated, the buzzer will not sound but we can still see the alarm icon (()) flashing on the LCD for time alarm. On the other hand, when the buzzer is turned off and any weather alarm is activated, the particular weather digits will flash to show user that the weather condition is being out of the preset threshold value, yet the buzzer will not sound. To switch off the buzzer: 1.

In normal display mode, press and hold the SET key until the icon "BUZZER OFF" is shown at the right side above the Wind direction scale. The LCD will change to setting mode. 2. Press ALARM or HISTORY key once to return to the normal display mode. The "BUZZER OFF" icon will still be shown. BUZZER

OFF icon 121 To re-enable the buzzer: 1. When the BUZZER OFF icon is shown on LCD, press and hold the SET key until the BUZZER OFF icon disappears. 2. Press ALARM or HISTORY key once to return to the normal display mode. The "BUZZER OFF" icon will no longer be shown.

Then the alarm will sound normally. LOW BATTERY INDICATOR The low battery indicator of the weather station and the transmitter will be displayed at the top and bottom portion of the LCD respectively when the battery power is low. It is recommended to replace the batteries in all units on an annual basis to ensure optimum accuracy of the system. Note: · After battery change, both the Weather Station and the transmitters need to be reset (see note "Setting up")

The History data record will be clear after the battery change. OUTDOOR TRANSMITTER 868 MHz RECEPTION CHECK The outdoor temperature, humidity, wind data are transmitted from thermo-hygro transmitter every 4.

5 seconds; the rainfall data are transmitted from the rain sensor every 6.25 seconds. The receiver will be synchronized to the thermo-hygro transmitter and rain sensor then. The transmission range (supposedly up to about 100 metres) of the thermo-hygro transmitter/ rain sensor may be affected by the ambient temperature. At cold temperatures the transmitting distance may be decreased.

Please keep this in mind when placing the transmitter and the rain sensor. 122 If (1) the outdoor data are not being received within 30 seconds after setting up; (2) the outdoor display always show "- - -" on the outdoor display; or (3) the reception icon of thermo-hygro transmitter (Mode 1) and rain sensor (Mode 2) is not displayed on the display, user shall check the following points: 1. The distance of the Weather Station or transmitter/ rain sensor should be at least

1.5 to 2 metres 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 doors or window frames. Using other electrical products such as headphones or speakers operating on the same signal frequency (868 MHz) may prevent correct signal transmission and reception. Neighbours using electrical devices operating on the 868 MHz signal frequency can also cause interference. "Visibility" of weather station and transmitter (e.g. through a window) increases the range.

2. 3. 4. 5. Note: When the 868 MHz signal is received, do not re-open the battery compartment cover of either the transmitter/ rain sensor 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. During normal operation, after the outdoor display shows "- - -", the weather station will change to receive the outdoor data every 15 minutes, until the data is read. Then the reception period for thermo-hygro transmitter will return to 4.5 seconds (6.25 seconds for rain sensor).

123 If no reception is possible despite the observation of these factors, all system units have to be reset (see Setting up). POSITIONING: Prior to permanently affixing any of the units, please ensure the following points are considered: · Cable lengths of the units meet with your distance requirements at the point of fixing · Signals from the sensors can be received by the base station at points of mounting The Weather Station The Weather Station has been designed to be hung onto wall or free standing with the two kinds of foldout stand. To wall mount Choose a sheltered place. Avoid direct rain and sunshine. Before wall mounting, please check that the outdoor temperature and humidity values can be received from the desired locations.

To wall mount: 1. 2. Fix a screw (not supplied) into the desired wall, leaving the head extended out by about 5mm. Hang the station onto the screw.

Remember to ensure that it locks into place before releasing.

124 The Thermo-hygro Sensor Rain Cover Main Unit Wall Bracket An ideal mounting place for the thermo-hygro sensor would be the outer wall beneath the extension of a roof, as this will protect the sensor from direct sunlight and other extreme weather conditions. To wall mount, use the 2 screws to affix the wall bracket to the desired wall, plug in the thermo-hygro sensor to the bracket and secure both parts by the use of the supplied screw and ensure that the cables from the wind and rain sensors are correctly plugged in otherwise data transmission errors could occur. 125 The Wind Sensor Wind vane Vertical mast Wind fan Horizontal panel Firstly, check that the wind-cups and the wind-vane can rotate freely before fixing the unit. For correct and accurate readings it is important to mount the sensor so that the front (marked E) is pointing in East-West direction.



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The wind sensor should now be mounted using the screw or cable tie provided onto a solid wall/ panel mast or mast to allow the wind to travel around the sensor unhindered from all directions (ideal mast size should be from diameter 16mm to 33mm). Do not over tighten. Once the wind sensor is fixed onto the mast, connect the cable to the corresponding thermo-hygro sensor socket so that operating power supply can be received and data can be transmitted to the base station. Secure cord from blowing. Do not use staples. Using PVC pipe or metal as a mast may cause static.

Wood is recommended. 126 The Rain Sensor Horizontal panel For best results, the rain sensor should be securely mounted onto a horizontal surface about 1 meter above the ground and in an open area away from trees or other coverings where rainfall may be reduced causing inaccurate readings. @@@@ when the reading interval is reached. 127 Note: You will need to be able to access your rain gauge periodically to clean debris and possible insect nests. Please keep this in mind when mounting. CARE AND MAINTENANCE: · Extreme temperatures, vibration and shock should be avoided as these may cause damage to the unit and give inaccurate forecasts and readings. · Precautions shall be taken when handling the batteries. Injuries, burns, or property damage may be resulted if the batteries are in contact with conducting materials, heat, corrosive materials or explosives. The batteries shall be taken out from the unit before the product is to be stored for a long period of time. · Immediately remove all low powered batteries to avoid leakage and damage. Replace only with new batteries of the recommended type. · 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 unit in water. · Special care shall be taken when handling a damaged LCD display.

The liquid crystals can be harmful to user's health. · 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. · Never touch the exposed electronic circuit of the device as there is a danger of electric shock should it become exposed.

· 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. 128 SPECIFICATIONS: Temperature measuring range: Indoor : 0°C to +59.9°C with 0.1°C resolution 32° to + 139.8° with 0.2° resolution F F F ("OF.L" displayed if outside this range) Outdoor : -40°C to +59.9°C with 0.1°C resolution -40° to + 139.8° with 0.

2° resolution F F F ("OF.L" displayed if outside this range) Relative humidity measuring range: Outdoor : 1% to 99% with 1% resolution ("- -" displayed if < 1%, "99" displayed if 99%) Wind speed/ gust : 0 to 180 km/h (0 to 111.8 mph, 0 to 50 m/s) (displayed "OF.L" when > 180 km/h) Wind chill/ dew point : -40°C to +59.9°C (-40° to +140° F F) (displayed "OF.L" if outside this) Relative pressure pre-set range 24h Rainfall Total Rainfall Outdoor data reception : 919 to 1080 hPa (27.14 to 31.90 inHg) : 0 to 999.9 mm : 0 to 9999 mm : every 4.5 seconds (from thermo-hygro transmitter) every 6.

25 seconds (from rain sensor) every 15 seconds up to 100 meters in open space Air pressure checking interval Transmission range : : 129 Power: Weather Station Thermo-hygro transmitter Rain sensor Battery life : : 3 x AA, IEC LR6, 1.5V : 2 x AA, IEC LR6, 1.5V : 2 x AAA, IEC LR3, 1.5V approximately 24 months (Alkaline batteries recommended) Dimensions (L x W x H): Weather Station Thermo-hygro transmitter Wind sensor Rain sensor : 121 x 26.3 x 190.7 mm : 57.3 x 62 x 156.9 mm : 250 x 145.9 x 276.2 mm : 144 x 54.

6 x 88 mm 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. 130 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. 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. 131 .



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