



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for LA CROSSE TECHNOLOGY WS1600. You'll find the answers to all your questions on the LA CROSSE TECHNOLOGY WS1600 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 WS1600**  
**User guide LA CROSSE TECHNOLOGY WS1600**  
**Operating instructions LA CROSSE TECHNOLOGY WS1600**  
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**Instruction manual LA CROSSE TECHNOLOGY WS1600**

**FAMILY WEATHER STATION**  
Instruction Manual

**INTRODUCTION:**  
Oleg announces as purchasing the state-of-the-art weather station as an example of excellent design and innovative measuring technique. Featuring time, date, calendar, weather forecast, wind direction and speed, rainfall, outdoor temperature and outdoor humidity, air pressure and various alarm settings for different weather conditions, this weather station will provide you with various weather information and weather forecast. Pages after pages, 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) 3 The Wind sensor · · Connected to the thermo-hygro transmitter by cable Can be installed onto a mast or a horizontal panel  
THE RAIN SENSOR · · Connected to the thermo-hygro transmitter by cable To be mounted onto a horizontal panel 4 SETTING UP: Wireless transmission at  
868 MHz - thermo-hygro transmitter to weather station Weather station Rain sensor Cable connection between the rain sensor and the thermo-hygro  
transmitter Cable connection between the wind sensor and the thermo-hygro transmitter Wind sensor 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 5 important to test all components for  
correct function before placing and mounting them at their final destinations (See Positioning below) 1. Unwind the cables of the Rain and the Wind sensors.  
Connect the Rain and the Wind sensors to the Thermo-hygro transmitter by plugging the connector heads of the two sensors into the appropriate sockets of  
the Thermo-hygro transmitter. Sockets for wind and rain sensor 2. 3. First insert the batteries into the Thermo-hygro transmitter (see "How to install and  
replace the batteries into the Thermo-hygro transmitter" 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 0:00, the  
date as 1.1.05, the weather icons, and air pressure value. "- - -" will be shown for outdoor data.

6 4. 5. 6. 7. Afterwards, the Weather Station will start receiving data from the transmitter.

The outdoor temperature, humidity windchill and wind speed should then be displayed on the Weather Station. If this does not happen after 30 seconds, the  
batteries will need to be removed from both units. You will have to start again from step 1. You may then check all cables for correct connection and all  
components for correct function by manually turning the wind-gauge, moving the weather-vane, tilting the rain sensor to hear the impact of the internally  
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. 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. 7 HOW TO INSTALL AND  
REPLACE THE BATTERIES INTO THE WEATHER STATION 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. 8 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. Uninstall the rain cover of the transmitter. 2. Remove the battery compartment cover. 3.  
Insert the batteries, observing the correct polarity (see the marking in the battery compartment). 4. 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 transmitter at start-up and this code must be received and stored by the Weather Station in the first 30 seconds of power being  
supplied to it. 9 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 authorised depot. Note: The stored History record will not be kept after  
the battery change is done on the weather station. FUNCTION KEYS: Weather Station: The Weather Station has 5 easy-to-use function keys.

Set key + key HISTORY key ALARM key MIN/MAX key 10 SET key · Press 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 · 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 · Stop the alarm during the time alarm or weather alarm ringing + key · · · Press to change the calendar display to the preset alarm  
time, date, weekday + date or second in the time display 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 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 11 · · · 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 · Stop the alarm during the time alarm or weather alarm ringing LCD SCREEN The LCD screen is split into 5  
sections displaying the following information: 1. Time and date 2.



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Wind data 3. Outdoor temperature and humidity, 4. Air pressure and Rainfall data 5. Air pressure history and Weather forecast. 12 Low battery indicator Time alarm icon Time display Calendar display Buzzer off indicator Wind direction display and wind speed in Beaufort scale Wind speed Hi/ Lo alarm icon Wind speed in km/h, mph or m/s Outdoor relative humidity in % Outdoor Humidity alarm icon Total rainfall in mm or inch Weather tendency indicator TX Wind Chill in °C or °F Outdoor temperature in °C or °F Outdoor temp. alarm icon Relative air pressure display in hPa or inHg Air pressure histogram Transmitter low battery indicator Weather forecast icon Transmitter signal reception icon 13 MANUAL SETTING: The following manual settings can be changed once the SET key is pressed: · LCD contrast setting · Manual time setting · 12/24 hour time display · Calendar setting · °C/ °F temperature unit setting · Wind speed unit · Rainfall unit setting · Air pressure unit setting · Relative pressure reference value setting · Weather tendency threshold value · Storm warning threshold value · Alarm On/ Off setting LCD CONTRAST SETTING Digit flashing The LCD contrast can be set within 8 levels, from "LCD 1" to "LCD8" (default setting is LCD 5): 1. Press the SET key, the contrast level digit will start flashing. 2.

Use the + or MIN/MAX key to adjust the level of contrast. 3. Confirm with the SET key and enter the MANUAL TIME SETTING. 14 MANUAL TIME SETTING: You then may manually set the time of the clock by following the steps below: Minutes flashing Hour flashing 1. 2.

3. 4. 5. The hour digit will start flashing. Use the + or MIN/MAX key to set the hour.

Press the SET key to switch to the minutes. The minute digit will start flashing. Use the + or MIN/MAX key to set the minute. Confirm the time with the SET key and enter the 12/24 HOUR TIME DISPLAY SETTING. 12/24 HOUR TIME DISPLAY SETTING: Digit flashing The time can be set to view as 12-hour or 24-hour format. The default time display mode is "24-h". To set to "12-h" time display: 1. Use the + or MIN/MAX key to toggle the value. 15 2. Confirm with the SET key and enter the CALENDAR SETTING.

CALENDAR SETTING: "Date. Month." (for 24h time display) "Month. Date." (for 12h time display) Year The date default of the Weather Station is 1. 1. of year 2005. The date can be set manually by proceeding as follows. 1. The year digit starts flashing.

2. Use the + or MIN/MAX key to set the year. The range runs from "00" (2000) to "99" (2099). 3. Press the SET 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 °C/°F TEMPERATURE UNIT SETTING. 16 °C/°F TEMPERATURE UNIT SETTING Flashing The be set by the use of the ALARM and SET key. 1. Press the ALARM key once. The "ALARM" icon and time digits are shown at the top right of the LCD. Alarm time digit Alarm-On icon 2.

Press and hold the SET key for about 2 seconds. The hour digit of the alarm time will start flashing. Press the + or MIN/MAX key to set the hour of the alarm time. Press the SET key to confirm and advance to the minute setting. The minute digit will be flashing. 3. 22 4. 5. 6. Press the + or MIN/MAX key to set the minute of the alarm time.

Press the ALARM key to confirm. Wait for about 30 seconds and the display will return to normal display mode automatically. In the normal display mode, press the ALARM once key to go to the time alarm setting mode again. Then press shortly the SET key to switch on or off the time alarm. (The showing of the icon (( )) means that the time alarm is switched on.

) Press the HISTORY key or wait for about 30 seconds and the display will return to normal display mode automatically. Note: The alarm ringing duration is 2 minutes. To stop the alarm, press any key during the alarm ringing. WEATHER ALARM OPERATIONS The Weather alarms are settable for when certain weather conditions are met according to your requirements. For example, you can set the thresholds for the outdoor temperature to +40°C (high) and -10°C (low), whilst only enabling the high alarm and disabling the low alarm (i.

e. temperatures <-10°C won't trigger alarm, but temperatures >+40°C will). 23 High wind speed AlarmOn icon Outdoor temp Alarm-On icon Outdoor humidity AlarmOn icon The Weather Station can be set to alert when a specific weather condition is reached. 24 The following Weather Alarm settings can be adjusted in the ALARM setting mode. · High outdoor temperature alarm · Low outdoor temperature alarm · High outdoor humidity alarm · Low outdoor humidity alarm · High wind speed alarm Default alarm values: Low Temperature High Relative Low Humidity High Wind speed High 0°C 40°C 45% 70% 100 km/h HIGH AND LOW OUTDOOR TEMPERATURE ALARM SETTING Note: The High and Low outdoor temperature alarm can be set On/ Off independently, according to your needs. Set the Outdoor temperature alarm value (High or Low alarm value) : 1. In the normal display mode, press the ALARM key twice. The High Outdoor Temperature alarm display will be shown. 25 High alarm icon Alarm-On icon 2. 3.

4. 5. 6. 7. Press and hold the SET key for about 2 seconds. The temperature digit will start flashing. Press the + or MIN/MAX key to set the high outdoor temp alarm value. (Keep holding the key will allow the value to increase faster.) Press the ALARM key to confirm the setting. The digit will stop flashing. Press the SET key to switch on or off the alarm. (The showing of the icon (( )) means that the alarm is switched on.) Press the ALARM key once. The Low Outdoor Temperature alarm display will be shown. Press and hold the SET key for about 2 seconds.

The temperature digit will start flashing. Press the + or MIN/MAX key to set the low outdoor temp alarm value. (Keep holding the key will allow the value to increase faster.) Press the ALARM key to confirm the setting. The digit will stop flashing.

Press the SET key to switch on or off the alarm. (The showing of the icon (( )) means that the alarm is switched on.) Press the HISTORY key or wait for about 30 seconds and the display will return to normal display mode automatically. 26 In case the temperature value meets the condition for high alarm or low alarm, the value will be blinking, along with the corresponding icon ("HI AL"/ "LO AL"). And the buzzer will ring for 2 minutes. User then may press any key to stop the ring.



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User may quit the alarm setting and return to the normal display mode by pressing the HISTORY key. HIGH AND LOW OUTDOOR HUMIDITY ALARM SETTING Note: The High and Low outdoor humidity alarm can be set On/ Off independently according to your needs. Set the Outdoor temperature alarm value (High or Low alarm value): 1. In the normal display mode, press the ALARM key four times.

The High Outdoor Humidity alarm display will be shown. 2. Press and hold the SET key for about 2 seconds. The humidity digit will start flashing. Press the + or MIN/MAX key to set the high outdoor humidity alarm value. 27 3. 4. 5. 6. 7.

Press the ALARM key to confirm the setting. The digit will stop flashing. Press the SET key to switch on or off the alarm. (The showing of the icon (( ( ))) means that the alarm is switched on.) Press the ALARM key once.

The Low Outdoor humidity alarm display will be shown. Press and hold the SET key for about 2 seconds. The humidity digit will start flashing. Press the + or MIN/MAX key to set the low outdoor humidity alarm value. Press the ALARM key to confirm the setting.

The digit will stop flashing. Press the SET key to switch on or off the alarm. (The showing of the icon (( ( ))) means that the alarm is switched on.) Press the HISTORY key or wait for about 30 seconds and the display will return to normal display mode automatically. In case the humidity value meets the condition for high alarm or low alarm, the value will be blinking, along with the corresponding icon ("HI AL"/ "LO AL"). And the buzzer will ring for 2 minutes. User may press any key to stop the sound. WIND SPEED ALARM SETTING The High wind speed alarm can be set by following the steps below. 1. In the normal display mode, press the ALARM key six times.

The High wind speed alarm display will be shown. 28 2. 3. 4. Press and hold the SET key for about 2 seconds. The wind speed digit will start flashing. Press the + or MIN/MAX key to set the high wind speed alarm value. Press the ALARM key to confirm the setting. The digit will stop flashing. Press the SET key to switch on or off the alarm.

(The showing of the icon (( ( ))) means that the alarm is switched on.) Press the ALARM key once to return to the normal display mode. In case the wind speed exceeds the condition for high wind speed alarm, the value will be flashing, along with the corresponding high alarm icon ("HI AL"). And the buzzer will ring for 2 minutes. User may press any key to stop the sound.

HYSTERESIS To compensate for fluctuation of the measured data, which may cause the weather alarm to sound constantly if the measured reading is close to your set level, a hysteresis function has been implemented for each weather alarm. For example, if the high temperature alarm is set to +25°C and the current value moves to +25°C, the alarm will be activated (if it has been enabled). Now when the temperature drops to +24.9°C or below and thereafter again increases to beyond +25°C, the data will be blinking, but no alarm will be activated. It has to drop to below +24°C (with a pre-set hysteresis of 1°C) so that the alarm can be produced again.

Hysteresis values for the various weather data types are given in the following table: Weather data Temperature Humidity Wind speed Hysteresis 1°C 3% RH 5 km/h 29 Note: The temperature or humidity data will keep on flashing even after a key has been pressed to stop the alarm or buzzer has been switched off, to indicate that the current weather condition is out of the pre-set limit(s)

WEATHER FORECAST AND WEATHER TENDENCY: WEATHER FORECASTING ICONS: Weather forecasting icons is displayed in any of the following combinations at the right bottom part of LCD: TENDENCY TENDENCY TENDENCY Sunny Cloudy with sunny intervals Rainy For every sudden or significant change in the air pressure, the weather icons will update accordingly to represent the change in weather. (Every time a new average pressure value has been obtained (once per minute), this value is compared with an internal reference value. If the difference between these values is bigger than the selected weather tendency threshold, the weather-icon changes, either for worse or for better. In this case, the current pressure value becomes the new weather tendency reference.) 30 If the icons do not change, then it means either the air pressure has not changed or the change has been too small for the Weather station to register. So you may adjust the "sensitivity" of the pressure change checking in the setting mode see WEATHER TENDENCY THRESHOLD VALUE SETTING above. However, if the icon displayed is a sun or raining cloud, there will be no change of icon if the weather gets any better (with sunny icon) or worse (with rainy icon) since the icons are already at their extremes. The icons displayed forecasts the weather in terms of getting better or worse and not necessarily sunny or rainy as each icon indicates. For example, if the current weather is cloudy and the rainy icon is displayed, it does not mean that the product is faulty because it is not raining.

@@@The scale on the right compares the result.

@@@ "0" represents the current air pressure). @@@@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. 33 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 12-24 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 in Beaufort scale · Wind chill in °C or °F · Wind Speed in km/h, mph or m/s 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 34 RAINFALL MEASUREMENT The total rainfall measurement is displayed in the fourth section of the LCD, in the unit of mm or inch. (see VIEWING THE MAXIMUM/ MINIMUM WEATHER DATA below) VIEWING THE HISTORY DATA The weather station can store up to 200 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 in Beaufort scale, Wind chill temperature, wind speed, Outdoor temp and humidity, relative pressure and total rainfall, pressure history and weather tendency.



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Also, the time and date of recording will be displayed. 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.

35 To view the weather history: 1. 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. HISTORY icon 2.

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) 36 Note: · · 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. 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 37 2. 3. 4.

Max outdoor temperature with the date and time of recording Min outdoor humidity with the date and time of recording Max outdoor humidity with the date and time of recording Time and date or recording MAX outdoor humidity value MAX icon 38 5. Min Wind chill temperature with the date and time of recording Time and date or recording MIN wind chill value MIN icon 6. 7. Max Wind chill temperature with the date and time of recording Min Relative pressure with the date and time of recording 39 8. Max Relative pressure with the date and time of recording Time and date or recording MAX relative pressure value MAX icon 40 9. Maximum wind speed Time and date or recording MAX wind speed value MAX icon RESET THE MAXIMUM AND MINIMUM WEATHER DATA To reset the aforementioned maximum or minimum weather data 1. to 9., you shall need to reset each of the data independently. 1. Press MIN/MAX key to show the desired weather data.

For instance, if you want to reset the minimum humidity, in the normal display you shall press the MIN/MAX key three 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. 41 3. 4.

Press the + key once, then the stored value will be reset to the current value and current time. Press the ALARM key to return to normal display mode. 10. 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 ten 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 value 42 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 key once to return to the normal display mode. The "BUZZER OFF" icon will still be shown. BUZZER OFF icon 43 To re-enable the buzzer: 1. When the BUZZER OFF icon is shown on LCD, press the SET key shortly and the BUZZER OFF icon will disappear. 2. Press ALARM 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 and rainfall is transmitted from transmitter every 4.5 seconds and the receiver will be synchronized to the transmitter to receiver outdoor data then.

The transmission range (supposedly up to about 100 metres) of the Outdoor Thermo-hygro transmitter 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. If the outdoor data are not being received within 30 seconds after setting up (or the outdoor display show "- - -" in the outdoor section of the Weather Station after 32 44 consecutive failed attempts 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 metres away from any interfering sources such as computer monitors or TV sets. 2. Avoid positioning the Weather Station onto or in the immediate proximity of metal doors or window frames. 3. Using other electrical products such as headphones or speakers operating on the same signal frequency (868 MHz) may prevent correct signal transmission and reception. 4. Neighbours using electrical devices operating on the 868 MHz signal frequency can also cause interference. 5. "Visibility" of weather station and transmitter (e.

g. through a window) increases the range. Note: When the 868 MHz signal is received, do not re-open the battery compartment 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.



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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 will return to 4.5 seconds. If no reception is possible despite the observation of these factors, all system units have to be reset (see Setting up). 45 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 the by about 5mm.

Hang the station onto the screw. Remember to ensure that it locks into place before releasing. 46 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. @@@@ When securing into place, check that rain excess will not collect and store at the base of the unit but can flow out between the base and the mounting surface (test by pouring clean water). After mounting the rain sensor, connect the cable to the thermo-hygro sensor at the corresponding socket so power supply can be received and data be transmitted to the base station The rain sensor is now operable.

For testing purposes, very slowly pour a small amount of clean water into the rain sensor funnel. The water will act as rainfall and will be received and displayed at the base station after about 2 minutes delay i.e. when the reading interval is reached. 49 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: Outdoor : -40°C to +59.9°C with 0.1°C resolution -40°F to +140°F with 0.2°F resolution ("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%) 50 Wind speed Wind chill : : 0 to 50 m/s (0 to 111.8 mph) (displayed "OFC" when > 50m/s) -40°C to +59.9°C (-40°F to +140°F) (displayed "OFC" if outside this) Relative pressure pre-set range Rainfall : : Outdoor data reception Air pressure checking interval Transmission range Power: Weather Station : 3 x AA, IEC LR6, 1.5V Thermo-hygro transmitter : 2 x AA, IEC LR6, 1.5V Battery life : approximately 12 months (Alkaline batteries recommended) Dimensions (L x W x H) Weather Station Thermo-hygro transmitter Wind sensor Rain sensor · 919 to 1080 hPa 0 to 9999 mm (0" to 393.6") (displayed "OFC" when > 9999mm) : every 4.5 seconds : every 15 seconds : up to 100 meters (330 feet) in open space : 165.4 x 30.8 x 141.9 mm (6.51" x 1.21" x 5.58") : 57.3 x 62 x 157 mm (2.25" x 2.44" x 6.18") : 250 x 164 x 192.7 mm (9.84" x 6.45" x 7.58") : 144 x 54.6 x 88mm (5.67" x 2.15" x 3.46")

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. 51 . . . . . 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.

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. 52 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. 53 .



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