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You can read the recommendations in the user guide, the technical guide or the installation guide for LA CROSSE TECHNOLOGY WS-9020U-IT. You'll find the answers to all your questions on the LA CROSSE TECHNOLOGY WS-9020U-IT 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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WS-9020U 915MHZ INTELLIGENT WEATHER STATION *Instruction Manual*

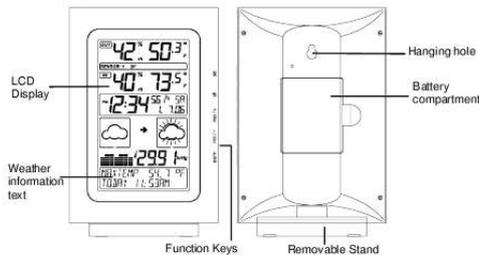
This product offers:



INSTANT TRANSMISSION is the state-of-the-art new wireless transmission technology, exclusively designed and developed by LA CROSSE TECHNOLOGY. *INSTANT TRANSMISSION* offers you an immediate update (every 4 seconds!) of all your outdoor data measured from the sensors: Chart the weather as it happens!

FEATURES

INTELLIGENT WEATHER STATION



- Immediate update (every 4 seconds!) of all your outdoor data measured from the sensors (note: 4 second may vary while updating)
- WWVB Radio-controlled time with manual setting option
- WWVB reception ON/OFF (user selectable)



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Manual abstract:

3. 4. @@ Batteries should be out of both the intelligent weather station and remote temperature/humidity sensor units for 10 minutes. Place the batteries into the remote temperature/humidity sensor first and then into the intelligent weather station. DO NOT PRESS ANY BUTTONS FOR 15 MINUTES. 2 In this time the intelligent weather station and remote temperature/humidity sensor will begin to communicate with each other and the display will show the temperature/humidity, outdoor temperature/humidity. If the intelligent weather station does not display all information after the 15 minutes, please retry the set up as stated above. After all information has been displayed for 15 minutes you can place your sensors outdoors and set your time. Important Notes on Set-up and Operation · The remote temperature/humidity sensor should be placed in a dry, shaded area. · Fog and mist will not harm your remote temperature/humidity sensor but direct rain must be avoided.

· The remote temperature sensor should be placed in a dry, shaded area. The remote temperature sensor has a range of 330 feet. Keep in mind that the 330 feet is in open air with no obstructions and that radio waves DO NOT curve around objects. Actual transmission range will vary depending on what is in the path of the signal. Each obstruction (roof, walls, floors, ceilings, thick trees, etc.

) will effectively cut signal range in half. Example: A wireless weather station receiver with a 330 feet range is mounted on an interior wall, so that the signal has to pass through one interior wall, one exterior wall, and across the 10 foot width of the room between the 2 walls. The first wall will reduce the range to 165 feet, and the second wall will reduce the range to 87 feet. Factoring in the 10 foot room, this leaves a maximum of 77 feet of remaining signal range. This allowance is typically enough for a frame wall with nonmetallic siding; however certain materials can reduce range even further.

Metal siding, stucco, and some types of glass can reduce signal range by as much as ¾ or more, compared to the ½ reduction typical of most obstructions. It is possible to receive a signal through these materials, however maximum range will be much less due to their tendency to absorb or reflect a much larger portion of the sensor's signal. · The remote temperature/humidity sensor transmits a signal every 4 seconds with variations during updating periods. After the batteries have been installed, the intelligent weather station will search for the signal for the duration of 45 seconds. If there is no temperature or humidity reading in the OUTDOOR LCD after 5 minutes, make sure the units are within range of each other, or repeat the battery installation procedure. 3 · If a button is pressed before the intelligent weather station receives the signal from the remote temperature/humidity sensor, you will need to follow the battery installation procedure again. To complete the set up of your new wireless intelligent weather station after the 5 minutes have passed, please follow the steps in the "Manual Settings" section. Note: If the outdoor sensor signal reception is not successful on the first frequency of 915MHz for 45 seconds, the frequency is changed to 920MHz, and the learning is tried for another 45 seconds. If it is still not successful the reception is tried for 45 seconds on 910MHz. This will also be done during re-synchronization.

BATTERY INSTALLATION INTELLIGENT WEATHER STATION The intelligent weather station uses 3 x AA (alkaline recommended) batteries. When the batteries need to be replaced the low battery symbol will appear on the LCD (or replace the batteries annually). To install and replace the batteries, please follow the steps below: 1. Remove the cover. 2. Insert batteries observing the correct polarity (see battery compartment marking). 3. Replace battery cover.

REMOTE TEMPERATURE/HUMIDITY SENSOR The remote temperature/humidity sensor uses 2 x AA (alkaline recommended) batteries. To install and replace the batteries, please follow the steps below: 1.

Remove the battery cover at the front side with a small screwdriver. 2. Insert the batteries, observing the correct polarity (see battery compartment marking). 3. Replace the battery cover on the unit.

Note: When changing the batteries in any of the units, all units need to be reset by following the "Quick Set Up Guide" procedures. This is because a random security code is assigned by the sensor at start-up, and this code must be received and stored by the intelligent weather station in the first few minutes of power being supplied to it. **BATTERY CHANGE:** It is recommended to replace the batteries in all units on an annual basis to ensure optimum accuracy of these units. Please participate in the preservation of the environment. Return used batteries to an authorized facility.

ABOUT WWVB (Radio Controlled Time) The NIST (National Institute of Standards and Technology--Time and Frequency Division) WWVB radio station is located in Ft. Collins, Colorado, and transmits the exact time and date signal continuously throughout the United States at 60 kHz. The signal can be received up to 2,000 miles away through the internal antenna in the intelligent weather station. However, due to the nature of the Earth's Ionosphere, reception is very limited during daylight hours. The intelligent weather station will search for a signal every night when reception is best. The WWVB radio station derives its signal from the NIST Atomic clock in Boulder, Colorado. A team of atomic physicists is continually measuring every second, of every day, to an accuracy of ten billionths of a second per day. These physicists have created an international standard, measuring a second as 9,192,631,770 vibrations of a Cesium-133 atom in a vacuum. For more information on the atomic clock and WWVB please see the NIST website at <http://www.boulder.nist.gov/timefreq/stations/wwvb.htm>.

5 **FUNCTION KEYS** Intelligent weather station: The intelligent weather station has 5 easy to use function keys on the right side of the unit. SET key CH key MAX/+ key MIN/- key ALARM key SET key · Press and hold the key to enter manual setting modes: LCD contrast, 12/24 hour time display, time zone, daylight saving time ON/OFF, manual time setting, calendar, WWVB ON/OFF, °F/°C temperature unit, pressure unit, relative pressure setting and language display · Confirm weather alarm in the setting mode · Reset individual MIN/MAX temperature/humidity record · Turn weather alarm off when sounding · CH key (Channel key) · Select channel 1, 2, or 3 (if more than 1 sensor is used) · Exit setting mode · Detect/Re-detect sensor's signal for all channels · Turn weather alarm off when sounding 6 MAX/+ key · Display MAX indoor / outdoor temperature and humidity records with time of recording · Increase all values in manual setting modes · Increase the weather alarm values · Turn weather alarm off when sounding · Reset max/min record MIN/- key · Display MIN indoor and outdoor temperature and humidity records with time of recording · Decrease all values in manual setting modes · Decrease the weather alarm values · Turn weather alarm off when sounding · Reset max/min record ALARM key · Enter the weather alarm time setting mode · Set next weather alarm in weather alarm setting mode 7 **LCD SCREEN** The LCD screen is split into 6 sections displaying the information for outdoor data, indoor data, time and date, weather forecast, air pressure and air pressure history, weather information display.



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Signal reception icon* Outdoor temperature in °F or °C Outdoor relative humidity in RH% Outdoor sensor identification number Indoor relative humidity in RH% Time display Indoor Temperature in °F or °C WWVB reception icon (for WWVB time) Calendar display Weather forecast icon Air pressure tendency indicator Air pressure history bar graph Relative air pressure display in hPa or inHg Weather display information in English, German, French, Italian and Spanish *When the signal from the remote temperature/humidity sensor is successfully received by the intelligent weather station, this signal reception will be switched on. (If not successful, the icon will not be shown on LCD) So the user can easily see whether the last reception is successful (icon on) or not (icon off). On the other hand, the short blinking of the icon shows that reception is currently taking place.

8 MANUAL SETTINGS The following manual settings can be changed when pressing and holding the SET key for approximately 4 seconds: · LCD contrast setting · 12/24 hour time display · Time zone setting · Daylight time saving ON/OFF · Manual time setting · Calendar setting · WWVB time reception ON/OFF setting · °F/°C temperature unit setting · Air pressure unit setting · Relative pressure value setting · Language display setting

LCD CONTRAST SETTING Last digit flashing The LCD contrast can be set within 8 levels, from LCD 1 to LCD8 (default setting is LCD 5): 1. Press and hold the SET key for about 4 seconds until the digit start flashing. 2. Use the MAX/+ or MIN/- key to view all levels of contrast. 3. Select the desired LCD contrast. Press and release the SET key to confirm selection and to enter the 12/24 Time Display setting.

12/24 HOUR TIME DISPLAY SETTING: Digit flashing The time display can be set to view time in 12 or 24 hour format. The default time display mode is "12h". To set to "24h" time display: 1. Use the MAX/+ or MIN/- key to toggle the value. 2. Press and release the SET key to confirm selection and to enter the Time Zone setting.

TIME ZONE SETTING Digit flashing 9 The time zone can be set ±12 hour. The default time zone is set to Eastern Time zone ("EST"). To set a different time zone: 1. The current time zone value starts flashing. 2. Use the MAX/+ or MIN/- key to set the time zone. The MAX/+ key increases the value and the MIN/- key decreases the value in consecutive 1 hour intervals. 3. Press and release the SET key to confirm selection and to enter the Daylight saving time On/Off setting.

DAYLIGHT TIME SAVING ON/OFF SETTING The Daylight Saving Time setting may be turned "on" or "off". Digit flashing 1. 2. 3. The digit "ON" will start flashing. This corresponds to the average air pressure. Pressure below this is referred to as low-pressure area (weather to become worse), pressure above as high-pressure area (weather to improve). The relative air pressure can be manually set to another value within the range of 28.35 to 30.72 inHg (960 to 1040 hPa) for a better reference. Digit flashing 1. 2. 3. The current relative pressure value will start flashing Use the MAX/+ or MIN/- key to increase or decrease the value. Keep holding the key allows the value to advance faster.

Press and release the SET key to confirm selection and to enter the Language display setting. Note: This calibration facility is useful for those users living at various elevations above sea level, but wanting their air pressure display based on sea level elevation.

LANGUAGE DISPLAY SETTING: The language for the calendar and "Intelligent" weather information display can be set to view in German (D), French (F), Italian (I), Spanish (S) & English (E) Default setting is English. To set another language: 1. Use the MAX/+ or MIN/- key to set the desired language.

13 2. Press and release the SET key to confirm selection and exit the Manual settings. **TO EXIT THE MANUAL SETTING MODE** To exit the manual setting anytime during the manual setting modes, press the CH key anytime or wait for an automatic timeout. The mode will return to normal time display.

OUTDOOR TEMPERATURE AND HUMIDITY: The first LCD section can show the outdoor temperature, the reception indicator, the minimum or maximum reading. A number in the bottom part will also be shown if more than one sensor has been used. Outdoor temperature alarm icon Outdoor humidity display in RH% Outdoor temperature in °F or °C MIN/MAX icon Sensor identification number (only if there is more than one sensor) Outdoor reception signal

INDOOR RELATIVE HUMIDITY AND INDOOR TEMPERATURE: The indoor temperature and humidity data are automatically updated and displayed in the second section of the LCD. Indoor relative humidity in % Indoor temperature in °F or °C

TOGGLING BETWEEN MIN/MAX INDOOR AND OUTDOOR RECORDINGS: To toggle between the current, minimum and maximum data and the times they were recorded, press the MIN/- key for viewing the minimum values, and press the MAX/+ key for viewing the maximum values (shown in MIN or Max displays). When pressing the MIN/- or the MAX/+ key, the MIN and the MAX data will be displayed as following sequences: 1. MAX or MIN outdoor temperature data with time and date of recordings. Data will flash 1. MAX or MIN outdoor humidity data with time and date of recordings. Data will flash 14 2. 3. 4. MAX or MIN indoor temperature data with time and date of recordings. Data will flash MAX or MIN indoor humidity data with time and date of recordings. Data will flash Return to current indoor and outdoor data.

ADDING SENSORS (OPTIONAL) The WS-9020U is able to receive signals from 3 remote temperature/humidity sensors (TX28U-IT). These extra sensors can be purchased through the same dealer as this unit **TO SET-UP OF MULTIPLE SENSORS** 1. Remove all the batteries from the receiver and sensor(s) and wait 60 seconds. During these 60 seconds, press any button 20 times to discharge any excess power. Insert the batteries to the first Thermo-hygro sensor. Within 2 minutes of powering up the first sensor, insert the batteries to the Weather Station. Once the batteries are in place, all segments of the LCD will light up briefly.

Following the indoor/outdoor temperature and humidity, time as 12:00, calendar, and weather icons will be displayed. If they are not shown in LCD after 60 seconds, remove the batteries and wait for at least 60 seconds before reinserting them. The outdoor temperature and humidity from the first sensor (channel 1) should then be displayed on the Weather station. If this does not happen and the signal reception icon is not shown, after 2 minutes, the batteries will need to be removed from both units and reset from step 1. Insert the batteries to the second sensor as soon as the outdoor temperature and humidity readings from the first sensor are displayed on the Weather station.



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NOTE: You must insert the batteries into the second sensor within 45 seconds of reception of the first sensor. The outdoor temperature and humidity from the second sensor and the "channel 2" icon should then be displayed on the Weather station. If this does not happen after 2 minute, the batteries will need to be removed from all the units and reset from step 1. Insert the batteries to the third sensor as soon as the "channel 2" icon and outdoor data are displayed on the Weather station. Then within 2 minutes, the channel 3 outdoor data from the third sensor will be displayed and the channel icon will shift back to "1" once the third sensor is successfully received. If this is not happen, user shall restart the setting up from step 1. NOTE: You must insert the batteries into the third sensor within 45 seconds of reception of the second sensor. 2. 3. 4.

5. 6. 7. 15 IMPORTANT: Transmission problems will arise if the setting for multiple sensors is not followed as described above. Should transmission problems occur, it is necessary to remove the batteries from all units and start again the set-up from step 1. TO VIEW MIN/MAX INDOOR AND OUTDOOR RECORDS: To toggle between the current, minimum and maximum data and the times they were recorded, press the MIN/- key for viewing the minimum values, and press the MAX/+ key for viewing the maximum values (shown in MIN or Max displays). Max icon When pressing the MIN/- or the MAX/+ key, the MIN and the MAX data will be displayed as following sequences: 1. MAX or MIN outdoor temperature data with time and date of recordings. Data will flash.

2. MAX or MIN outdoor humidity data with time and date of recordings. Data will flash. 3. MAX or MIN indoor temperature data with time and date of recordings. Data will flash.

4. MAX or MIN indoor humidity data with time and date of recordings. Data will flash. 5. Return to current indoor and outdoor data. TO VIEW THE MIN/MAX DATA FROM DIFFERENT SENSORS When more than 1 sensor used 1. To toggle between sensors, press the CH key: Once to show sensor 2 Twice to show sensor 3 Three times to return to sensor 1 2. While the outdoor MIN/MAX humidity and temperature date is being displayed, press the CH key. The display will toggle between the different channels MIN/MAX data. Note: For example, when the MIN outdoor temperature data is displayed and the MAX/+ key is pressed, MAX data outdoor temperature will be 16 displayed. If the MAX outdoor temperature data is displayed and the MIN/- key is pressed, MIN outdoor data will be displayed. While MIN/MAX data is displayed, the channel can be changed by pressing the CH key. TO RESET THE MIN/MAX VALUES TO CURRENT VALUES: To reset individual indoor and outdoor MIN/MAX values to current values: 1. Press the MAX/+, MIN/- and CH key to select the desired MIN/MAX value. 2.

Press the SET key to reset the selected value to current value Note: To reset all indoor and outdoor MIN/MAX values to current values, press and hold the MAX/+ or MIN/- key for 3 seconds. OUTDOOR CHANNEL RE-LEARN MODE In case the temperature data in a particular outdoor channel often shows "--" due to low battery level or false reset of a sensor, that sensor can be set up again. To re-learn ALL channels: Press and hold the CH key for 3 seconds (outdoor reception signal will show next to channel display). WEATHER ALARM SETTING The intelligent weather station can be set to alert when a specific weather condition is reach. @@@@3. 4. 5. Press the MAX/+ or MIN/- key to set the alarm ON or OFF. @@@@2.

3. 4. The On/ Off icon is flashing. Press the MAX/+ or MIN/- key to activate the alarm ON/OFF. @@@@The alarm will sound for 120 seconds if no one stops the alarm.

User may press any key to stop the buzzer ringing. @@@@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. It simply means that the air pressure has dropped and the weather is expected to get worse but not necessarily rainy. The change of weather forecast icon is in agreement with the relationship between current relative pressure and the pressure change in the last three hours.

If the weather is changing, both old weather icon and new weather icon will be shown with a weather tendency indicator (animated arrows). If the weather has not changed within 6 hours, only the new weather icon in the middle display will be shown. 20 Examples of changing weather icons: Note: After initial set up of the intelligent weather station with the setting of the relative value, readings for weather forecasts should be disregarded for the next 12-24 hours. This will allow sufficient time for the intelligent weather station to collect air pressure data at a constant altitude and therefore result in a more accurate forecast. If the intelligent weather station is moved to another location significantly higher or lower than its initial standing point (for example from the ground floor to the upper floors of a house), set again the relative air pressure value, and discard the weather forecast for the next 12-24 hours. By doing this, the intelligent weather station will not mistake the new location as being a possible change in air-pressure when really it is due to the slight change of altitude. AIR PRESSURE TENDENCY INDICATOR The air pressure tendency indicators are located on the left side of the air pressure display, below the weather icons, and they work independently from the weather forecast icons. The air pressure tendency indicator pointing upward or downward directions is displayed based on comparing the difference of the air pressure recorded during a full hour time frame. Note: · An upward air pressure tendency indicator means that there is an increase in air pressure within the past 4 hours. · A downward air pressure tendency indicator means that there is an decrease in air pressure within the past 4 hours.

21 AIR PRESSURE The fifth section of the LCD shows the relative air pressure and the air pressure history. Air pressure changes in hPa Air pressure over the last 12 hours The reference relative air pressure can be set between 28.35 to 30.72 inHg (960 to 1040hPa). See "Relative pressure value setting" in manual setting. BAR GRAPH DISPLAY You may select to display the history of the air pressure in the form of a graph consisting of vertical bars on the intelligent weather station LCD. AIR PRESSURE HISTORY The bar graph of the electronic barometer shows the air pressure history for the past 12 hours in 7 steps. 4.5hPa 3hPa 1.5hPa 0hPa -1.

5hPa -3hPa -4.5hPa -12 h -9h -6h -3h -2h -1h 0h The horizontal axis represents the last 12 hours air pressure recordings (-12, -6, -5, -4, -3, -2, -1, and 0 hour, from right to left). The bars are plotted at each of the 7 steps and give the trend over the recorded period.



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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 (4.5, 3, 1.5, "0" represents the current air pressure). Each change (± 1.5 , ± 3 , ± 4.5 ; the other values are not shown on the vertical axis but can be determined) shows in inches of mercury (hPa), how high or low the past air pressure was as compared to the current one. Rising bars indicate the weather is getting better due to an increase in air pressure. A downward sloping bars indicates a drop of the air pressure and the weather is expected to get worse from the present time. 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 bar to the left. Note: For accurate barometric pressure trend, the intelligent weather station should operate at the same altitude. For example, it should not be moved from the ground to the second floor of the house. Should the unit be moved to a new location, discard readings for the next 48-60 hours. **LOW BATTERY INDICATOR** The low battery indicator will be displayed in the LCD when the battery power of the intelligent weather station is low. It is recommended to replace the batteries in all units on an annual basis to ensure optimum accuracy of the intelligent weather station.

Note: After battery change, both the intelligent weather station and the sensor(s) need to be reset (see note "Setting up")

WEATHER INFORMATION DISPLAY The weather information display located at the last section of the LCD will display the weather forecast based on data received from channel 1 and the air pressure. The intelligent weather station will automatically display the following information: · Maximum temperature of the day · Minimum temperature of the day · Probability of the weather forecast · Time frame for the weather forecast · Probability of snowfall · Probability of fog · Probability of glazed frost · Probability of tempest · Probability of strong wind · Probability of storm · Forecast for lowest night temperature

23 German English French Italian Spanish DETAILED INFORMATION SHOWN IN THE WEATHER DISPLAY: English Forecast period 6 hours 12 hours 24 hours 36 hours 48 hours Forecast Index 65% Index 70% Index 75% Index 80% Index 85% MaxTemp xx.x°F Today xx :xx MinTemp xx.x°F Today xx :xx Snowfall Index 65% Index 75% Fog Index 80% Index 85% Glazed frost Index 75% German Vorhersage Dauer 6 Stunden 12 Stunden 24 Stunden 36 Stunden 48 Stunden Prognose Index 65% Index 70% Index 75% Index 80% Index 85% MaxTemp xx.x°F Heute xx :xx MinTemp xx.x°F Heute xx :xx Schnee Index 65% Index 75% Nebel Index 80% Index 85% Rauhreif Index 75% Language selected French Italian Durata prev. Period 6 ore prevision 6 heures 12 heures 12 ore 24 heures 24 ore 36 heures 36 ore 48 heures 48 ore Prévision Indice Index 65% Previsione 65% Indice 70% Index 70% Indice 75% Index 75% Indice 80% Index 80% Indice 85% Index 85% TempMax MaxTemp xx.x°F xx.x°F Du Jour xx :xx Oggi xx :xx MinTemp TempMin xx.x°F xx.x°F Du Jour xx :xx Oggi xx :xx Neige Indice Index 65% Neve 65% Index 75% Neve 75% Brouillard Index 80% Index 85% Givre Index 75% Indice Nebbia 80% Indice 85% Indice Brina 75% Spanish Periodo prev. 6 horas 12 horas 24 horas 36 horas 46 horas Indice Prevision 65% Indice 70% Indice 75% Indice 80% Indice 85% TempMax xx.x°F Hoy xx :xx TempMin xx.x°F Hoy xx :xx Indice Nieve 65% Nieve 75% Indice Niebla 80% Indice 85% Indice Escarcha 75% Timeframe for weather forecast Probability of weather forecast Maximum temperature of the day Minimum temperature of the day Probability of snowfall Probability of fog Probability of glazed frost 24 Probability of tempest Probability of strong winds Probability of storm Forecast lowest night temperature Tempest Index 80% Strong wind Index 80% Storm Index 75% Gewitter Index 80% Starkwind Index 80% Sturm Index 75% Orage Index 80% Vent Fort Index 80% Tempête Index 75% Prevision temp Min nuit xx°F Indice Temporal 80% Indice Vento forte 80% Indice Tempesta 75% Previsione temp Min notte xx°F Indice Tormenta 80% Indice viento Forte 80% Indice Tempestad 75% Prevision temp Min noche xx°F Forecast Min Erwartete lowest Nachttemp Nighttemp xx°F xx°F Note: · · · The forecast period, forecast index, and today's maximum/minimum temperature will always be shown on the LCD. The Forecast lowest night temperature will be displayed between 8:00 pm to 6:00 am Other information will be show when a specific weather event happened that has been calculated by the unique algorithm of the intelligent weather station.

REMOTE TEMPERATURE/HUMIDITY SENSOR / 915MHZ RECEPTION CHECK The outdoor temperature and humidity is measured and transmitted about every 4 seconds. The transmission range of the remote temperature/humidity sensor may be affected by the ambient temperature. At cold temperatures the transmitting distance may be decreased. Please bear this in mind when placing the sensor. The remote temperature sensor should be placed in a dry, shaded area.

The remote temperature sensor has a range of 330 feet. Keep in mind that the 330 feet is in open air with no obstructions and that radio waves DO NOT curve around objects. Actual transmission range will vary depending on what is in the path of the signal. Each obstruction (roof, walls, floors, ceilings, thick trees, etc.) will effectively cut signal range in half. Example: A wireless weather station receiver with a 330 feet range is mounted on an interior wall, so that the signal has to pass through one interior wall, one exterior wall, and across the 10 foot width of the room between the 2 walls. The first wall will reduce the range to 165 feet, and the second wall will reduce the range to 87 feet. Factoring in the 10 foot room, this leaves a maximum of 77 feet of remaining signal range. This allowance is typically enough for a frame wall with non-metallic siding; however certain materials can reduce range even further. Metal siding, stucco, and some types of glass can reduce signal range by as much as ¾ or more, compared to the ½ reduction typical of most obstructions.

It is possible to receive a signal through these materials, however maximum range will be much less due to their tendency to absorb or reflect a much larger portion of the sensor's signal. If the outdoor temperature and humidity data are not being received within 2 minute after setting up (or the outdoor display show "--" in the outdoor section of the intelligent weather station after failed attempts during normal operation). Please check the following points: 1. The distance of the intelligent weather station or remote temperature/humidity sensor should be at least 3 to 6 feet (1.



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5 to 2 meters) away from any interfering sources such as computer monitors or TV sets. 2. Avoid positioning the intelligent 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 (915MHz) may prevent correct signal transmission and reception.

3. Neighbors using electrical devices operating on the 915MHz signal frequency can also cause interference. 4. "Visibility" of the intelligent weather station and remote temperature/humidity sensor (e.g.

through a window) increases the range. Note: When the 915MHz signal is received, do not re-open the battery cover of either the remote temperature/humidity sensor or the intelligent 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. If no reception is possible despite the observation of these factors, all system units have to be reset (see Setting up). POSITIONING THE INTELLIGENT WEATHER STATION: The intelligent weather station has been designed to be hung on a wall or free standing.

For Free standing: Simply attached the stand to the bottom of the unit and place onto a flat surface. 26 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. Fix a screw (not supplied) into the desired wall, leaving the head extended out the by about 0.2" (5mm). 2. Fold the stand of the intelligent weather station by pushing inward and hang it onto the screw. Remember to ensure that it locks into place before releasing.

POSITIONING THE REMOTE TEMPERATURE / HUMIDITY SENSOR: The remote temperature/humidity sensor can be placed onto any flat surface or wall mounted using the bracket which doubles as a stand or wall mount base. Table stand/wall mount bracket To wall mount: 1. Secure the bracket onto a desired wall using the screws and plastic anchors. 2. Clip the remote temperature/humidity sensor onto the bracket. Note: Before permanently fixing the remote temperature/humidity sensor wall base, place all units in the desired locations to check that the outdoor temperature and humidity readings are receivable. In event that the signal is not received, relocate the remote temperature/humidity sensor or move them slightly as this may help the signal reception. 27 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: Indoor : +40°F to +139.8°F with Accuracy +/- 0.2°F resolution -40°C to +59.

9°C with Accuracy +/- 0.1°C resolution ("OF.L" displayed if outside this range) Outdoor : -39.8°F to +139.8°F with Accuracy +/- 0.2°F resolution -39.9°C to +59.9°C with Accuracy +/- 0.1°C resolution ("OF.L" displayed if outside this range) Relative humidity measuring range: Indoor : 1% to 99% with 1% resolution (" - " displayed when value < 1%; "99%" displayed if value 99%) Outdoor : 1% to 99% with 1% resolution ("1%" displayed when value 1%; "99%" is played if value 99%) Indoor temperature checking interval : every 20 seconds Indoor humidity checking interval : every 20 seconds Outdoor temperature reception : every 4 seconds Outdoor humidity reception : every 4 seconds Sensor checking interval : every 4 seconds Air pressure checking interval : every 20 seconds Transmission range : up to 300 feet (100 meters) (open space) Power supply: Intelligent Weather Station : 3 x AA batteries Remote temperature/humidity sensor : 2 x AA batteries 28 Battery life cycle : approximately 12 months Alkaline batteries are recommended Dimensions (H x L x W) Intelligent Weather Station : 6.

88" x 4.72" x 1.22" / 175 x 120 x 31 mm Remote temperature/humidity sensor : 6.39" x 1.69" x 0.90" / 160 x 43 x 23mm WARRANTY INFORMATION La

Crosse Technology, Ltd provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship. This limited warranty begins on the original date of purchase, is valid only on products purchased and used in North America and only to the original purchaser of this product. To receive warranty service, the purchaser must contact La Crosse Technology, Ltd for problem determination and service procedures. Warranty service can only be performed by a La Crosse Technology, Ltd authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to La Crosse Technology, Ltd or La Crosse Technology, Ltd's authorized service center.

La Crosse Technology, Ltd will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of La Crosse Technology, Ltd and must be returned to La Crosse Technology, Ltd. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer. @@@@ @@@@ Your La Crosse Technology, Ltd warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (including the lack of reasonable and necessary maintenance); (2) damage occurring during shipment (claims must be presented to the carrier); (3) damage to, or deterioration of, any accessory or decorative surface; (4) damage resulting from failure to follow instructions contained in your owner's manual; (5) damage resulting from the performance of repairs or 29 alterations by someone other than an authorized La Crosse Technology, Ltd authorized service center; (6) units used for other than home use (7) applications and uses that this product was not intended or (8) the products inability to receive a signal due to any source of interference..

This warranty covers only actual defects within the product itself, and does not cover the cost of installation or removal from a fixed installation, normal set-up or adjustments, claims based on misrepresentation by the seller or performance variations resulting from installation-related circumstances.



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LA CROSSE TECHNOLOGY, LTD WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT. THIS PRODUCT IS NOT TO BE USED FOR MEDICAL PURPOSES OR FOR PUBLIC INFORMATION. THIS PRODUCT IS NOT A TOY. KEEP OUT OF CHILDREN'S REACH.

This warranty gives you specific legal rights. You may also have other rights specific to your State. Some States do not allow the exclusion of consequential or incidental damages therefore the above exclusion of limitation may not apply to you. For warranty work, technical support, or information contact: La Crosse Technology, Ltd 2809 Losey Blvd. S. La Crosse, WI 54601 Phone: 608.782.1610 Fax: 608.796.1020 e-mail: support@lacrossetechnology.

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All trademarks and patents are acknowledged. FCC ID: OMO-TX28U (sensor) FCC DISCLAIMER RFExposure mobil: The internal / external antennas used for this mobile sensor must provide a separation distance of at least 20 cm (8 inches) from all persons and must not be co-located or operating in conjunction with any other antenna or sensor." Statement according to FCC part 15.19: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Statement according to FCC part 15.21: Modifications not expressly approved by this company could void the user's authority to operate the equipment. Statement according to FCC part 15.105: NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help 31 .



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