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You can read the recommendations in the user guide, the technical guide or the installation guide for LA CROSSE TECHNOLOGY WS2357. You'll find the answers to all your questions on the LA CROSSE TECHNOLOGY WS2357 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 WS2357
User guide LA CROSSE TECHNOLOGY WS2357
Operating instructions LA CROSSE TECHNOLOGY WS2357
Instructions for use LA CROSSE TECHNOLOGY WS2357
Instruction manual LA CROSSE TECHNOLOGY WS2357

Operation Manual Professional Remote Weather Station	
Table of Contents	
	Page
1. Introduction	52
2. Intended use	52
Weather Station	52
System requirements for PC use	53
Installation for the 433MHz drive	53
Features of the base station	53
Features of the thermo hygro sensor	54
Features of the wind sensor	54
Features of the rain sensor	54
3. Safety Notes	54
4. Packaged contents	55
5. Getting up	57
6. Operation using cable connection or wireless 433MHz	59
7. LCD overview	61
8. Function test	62
9. Mounting	63
10. Resetting & factory settings	68
11. Function description	69
12. Operation keys	71
13. Basic programming modes	73
14. MIN/MAX programming modes	74
15. Alarm programming modes	76
16. Auto memory for stored values	84
17. Accessories, extension cables	85
18. Changing batteries	85
19. Problems and interference with operation	88
20. Transmission range	88
21. Cleaning and maintenance	89
22. Specifications	89
23. Liability disclaimer	90



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Manual abstract:

.....
.....
.....
.....

... 52 Weather Station ..

.....
.....

.. 52 System requirements for PC use.....

..... 53 Installation for the USB adapter driver

. Features of the base station

..... 53 Features of the thermo-hygro sensor...

54 Features of the wind sensor

..... 54 Features of the rain sensor....

..... 54 Safety Notes .

.....
.....
.....
.....

... 54 Packaged contents..

.....
.....

... 55 Setting up..

.....
.....

..... @59 LCD overview...

.....
.....
.....

61 Function test

.....
.....
.....
.....

info for downloads of complete instruction manuals and the most current version of the 'Heavy Weather' software. 1. Introduction Thank you for purchasing this Professional Remote Weather Station. Designed for everyday use, the weather station will prove to be an asset of great value for your personal use in the home or office. Please read this instruction manual thoroughly to fully understand the features and functions so that you can enjoy the safe and correct operation of this unique product.

2. Intended Use Weather Station The base station measures the indoor environment of its surrounding area and receives weather data from the following three outdoor sensors: 1) Thermo-Hygro Sensor 2) Wind Sensor 3) Rain Sensor The received data is continuously updated to bring you the latest weather information on the base station's LCD. The thermo-hygro sensor is the main data communication unit since both the wind and rain sensors are connected to the thermo-hygro sensor for operating power and rely on it to communicate to the base station. Weather data sent from the thermo-hygro sensor can be done by wireless 433MHz transmission (up to 100 meters in open space) or by cable connection. Using the enclosed 2 meter computer cable and CD-ROM, you can install the Heavy Weather software to your PC and upload all the received weather data from the base station. 52 Access the latest weather information from your PC and upload up to 175 sets of recorded weather data by the base station and generate useful statistics and charts onto your spreadsheets (175 sets of data is stored in the base even if the PC is switched OFF). The software itself does not set any limits as to how many data sets that can be transferred to PC. This weather station is designed to work easily with your PC. There are no tedious requirements to turn your PC ON or OFF, simply connect and disconnect the PC cable at any time. System Requirements for PC use: The minimum system requirement for use of this "Heavy Weather" software is: Operating system: Windows 98, Windows 2000, XP Pro and Home Editions, and Vista Processor: Pentium 166 MHz or above RAM: 32MB of RAM or above Hard disk: 20MB free space CD-ROM drive Installation for the USB adapter driver 1- Find the Heavy Weather CD-ROM within the packaging.

2- Plug in the USB adapter to the computer. 3- Follow the Windows Installation steps to find the driver. Select "Install from a list of specific location (Advanced)" 4- Install the CD-ROM to CD drive. 5- From the list that appears select: E:\USB\ where E: is the location of the CD drive. Note: For the latest USB adapter driver, please visit: <http://www.ftdichip.com/Drivers/VCP.htm> For the detail installation instruction for the USB adaptor, please visit: <http://www.ftdichip.com/Documents/InstallGuides.htm>

After installing the USB Adapter Driver check in Device Manager to confirm that Windows has recognized the adapter: To determine which COM Port your USB adapter is on: 1- Find MY COMPUTER and "right click" the icon. 2- Select MANAGE. 53 34- 56- 7- Click on DEVICE MANAGER. You should see COM Ports listed with numbers after them Ex: Communications Port (COM 1), USB serial port (COM 4). If you do not see a COM setting, your computer does not recognize your USB driver.

If the USB adapter is not on COM port 1, 2, 3 or 4 you will need to change it. Double click the COM Port Ex: (COM 7) this will bring up a Communications Port Properties Box. Click the Port Settings Tab, Click Advanced. Click the Drop Down next to the COM port number and select Com 1, 2, 3, or 4. If they are IN USE see your computer person BEFORE changing.

After configuring the adapter, connect the weather station and open the Heavy Weather software. Click SETUP button and select the proper COM Port. Data should begin to download within a minute or two. Features of the base station: · Receives and displays the DCF77 radio controlled time and date · Display of extensive weather data, in all cases with programmable alarm functions for certain weather conditions as well as records of all minimum and maximum values along with time and date of their recordings · Indoor and outdoor temperature and relative humidity displays in degrees Fahrenheit or Celsius (user selectable) · Indoor and outdoor relative humidity displays · Air pressure reading in inHg or hPa, absolute or relative (user selectable) · Detailed display of rainfall data in 1 hour, 24 hours, total since last reset (user selectable in mm or inch) · Wind speed in mph, km/h, m/s, knots or Beaufort (user selectable) · Wind direction display with LCD compass as well as numerical (e.g. 225° and abbreviated characters (e.g.) SW) 54 · · · · · Wind chill temperature display Dew point temperature display Weather forecast display by weather icons (sunny, cloudy, rainy) Weather tendency indicator Storm warning alarm LED back light Simultaneous display of all weather data with individual settings by the user COM port for easy connection to your PC All the weather data from the base station and up to 175 sets of weather history data with user adjustable measuring intervals can be recorded and uploaded to your PC Features of the Thermo-Hygro Sensor The thermo-hygro sensor measures the outdoor temperature and relative humidity. It also collects the readings from the rain and wind sensors before transmitting the data to the base station by wireless 433MHz or by the 10 meter cable included in this set. Features of Wind sensor The wind sensor measures wind speed and wind direction and sends the data to thermo-hygro sensor which in turn transmits the data to the base station.

Operating power is taken from the thermo-hygro sensor using a 10 meter cable connection. Features of Rain sensor The rain sensor measures the rainfall and sends the data to thermo-hygro sensor which in turn transmits the data to the base station. Operating power is taken from the thermo-hygro sensor by a 10 meter cable connection. 3. · Safety Notes Damage caused by failure to comply with this instruction manual will invalidate any guarantee! The manufacturer and supplier will not be held liable for actions due to failure to comply with this instruction manual or from data inaccuracies that may occur with this product! 55 · · · · · 4.



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In case of harm or damage to a person or property caused by improper handling or failure to comply with this instruction manual, the manufacturer and supplier cannot be held liable. For reasons of safety and operation, alterations to this device are strictly prohibited. To operate the weather station, use only supplied adaptor and batteries of the recommended type. Do not leave used-up batteries in the device as these may corrode and release chemicals that may damage the unit. Inserting batteries in an incorrect polarity will cause damage to this product.

This product is not a toy kept out of the reach of children. Do not depose new or used batteries to fire as they may explosion or release dangerous chemicals. This product is not to be used for medical purposes or for public information. Packaged Contents Before setting up, carefully unpack the contents onto a table or flat surface and check that the following are complete: Item: Base Station Consisting of: · Main unit Fittings: · AD/DC 230V power Adaptor optional use (included) Illustration: ThermoHygro Sensor · Main unit · Rain protection cover · 10 meter cable optional connection to the base station (included) · Wall mounting 56 screws · Plastic anchors for screws Wind Sensor · Main unit with wind vane · 10 meter cable (already attached to the main unit) · Mast holder · L-shaped extension · Main unit (base and funnel) · 10 meter cable (already attached to the main unit) CD-Rom format (English, German and French languages only) · 2 meter PC cable for PC connection optional use (included) · 1 x U-bolts for mast holder · 2 x Washers · 2 x Nuts · 2 x Plastic cable ties Rain Sensor Heavy weather PC software 57 5. Setting up Firstly, choose to use the adaptor (included in this set) or batteries for operation.

Both these methods allow for operation of using wireless 433MHz transmission or cable connection between the base station and the sensors and setting up for both methods is as follows: Base Station: Socket for Adaptor Battery compartment PC COM Port Socket for sensor 58 Setting up using batteries: ThermoHygro Sensor Sensor sockets Battery Cover Battery Compartment Sensor sockets Important: 1) To avoid operating problems, please take note of battery polarity if inserting any batteries 2) 3) 4) Pull away the rain cover of the thermo-hygro sensor to reveal the three sockets (for the wind sensor, rain sensor and the base station) Connect the attached cables of wind and rain sensors to the corresponding sockets of the thermo-hygro sensor by clicking them into place Open the battery cover of the thermo-hygro sensor located below the three sockets and insert 2 x AA, IEC LR6, 1.5V batteries and close the cover Open the base station's battery cover located at the back of the unit and insert 3 x AA, IEC LR6, 1.5V batteries into the battery compartment and close the battery cover 59 Setting up using the AC adaptor: 1) Power up all the sensors as described in setting up using batteries above 2) Using the AC adaptor (included), plug it into the mains outlet and power up the base station by inserting the adaptor jack into the 6.0V DC socket located on the side of the base station Every time the thermo-hygro sensor is powered up (for example after a change of batteries), a random security code is transmitted and this code must be synchronized with the base station to receive weather data. When the base station is powered up, a short beep will sound and all LCD segments will light up for about 5 seconds before it enters into a 15 minute learning mode to learn the sensors security code.

After the learning mode (or by pressing the MIN/MAX key at anytime), the base station will start the DCF77 radio controlled time reception. Note for DCF77 Radio Controlled Time: The time and date display is based on the signal provided by a highly accurate Caesium atomic clock operated by the Physikalisch Technische Bundesamt in Braunschweig (Germany). This radio-controlled clock does not only provide for the weather station's time and date display but also functions as the time source for all of this weather station's memory and history valthrough the relevant LCD sections: 1) 2) 3) 4) 5) 6) 7) 8) 9) Indoor temperature and humidity Outdoor temperature and humidity Outdoor wind chill Dew point Rainfall 24 hour Rainfall 1hour Rainfall Total Relative and absolute pressure Wind speed, wind direction and wind direction in degrees 63 If any readings cannot be received from the sensors, lines (- -) will be displayed in the respective weather sections of the LCD. In this case, check that all cables are correctly inserted into the correct sockets and press and hold the PLUS(+) key for 2 seconds and a short beep will sound to synchronize the base station to the sensors otherwise no weather data will be received. Some weather readings such as wind speed and direction may not appear immediately on the LCD if the wind-fan or vane of the wind sensor is moved. This is due to the set reading time intervals for the wind readings. However the current wind speed or direction will be displayed once the time reading interval is reached. For rainfall, the interval readings may take up to 2 minutes before the data is displayed on the LCD. 9. Mounting Important Note Prior to drilling mounting holes and 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 · Radio controlled time signal can be received at the point of mounting Base Station With two foldable legs at the back of the unit, the base station can be placed onto any flat surface or wall mounted at the desired location by the hanging holes also at the back of the unit.

It is important to check that the 433MHz (if using wireless connection) and the DCF77 radio controlled time signal can be received before permanently mounting any of the units. Should the base station not display the 433MHz weather data from the sensors or the radio controlled time from the desired location, then relocate the units. Once the signals are received, the system can be affixed. Also if you have selected 64 to use cable connection, ensure that distances can reach all desired locations before affixing any unit permanently Mounting the Wind Sensor The remote wind speed sensor can be mounted two ways: · With the use of screws · Using nylon straps Mounting with screws Wind vane Fixed with screw Horizontal panel 1. 2. 3. 4. 5. Unlock the mounting bracket from the remote wind speed sensor leaving the wire going through the bracket. Place the mounting bracket over the desired location.

Through the two screw holes of the bracket, mark the mounting surface with a pencil.



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Screw the mounting bracket onto the mounting surface. Ensure that the screws are tight against the bracket. Slide the remote wind speed sensor onto the bracket making sure to lock it in place. MOUNTING WITH NYLON STRAPS Vertical mast Wind fan Fixed with Nylon strap 65 1.

2. 3. 4. 5. Unlock the mounting bracket from the remote wind speed sensor leaving the wire going through the bracket.

Place two nylon straps through the slots on the mounting bracket. Place the remote wind speed sensor in your desired location. Fasten the two nylon straps securely around the mounting location. Slide the remote wind speed sensor onto the bracket making sure to lock it in place. 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. Mounting the Rain Sensor Funnel portion Base portion 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 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 66 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 (to clear this testing data on the base station, refer to the section "MIN/MAX Mode" below). Mounting the thermo-hygro Sensor Wall Bracket Rain Cover Main Unit 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. 10. Resetting & factory settings: As previously mentioned, in the event of a power reset to the sensor (for example a change of batteries), the base station has to synchronize to the sensor again otherwise no weather data will be received. To do this, simply press and hold the PLUS(+) key for 2 seconds and a short beep will sound to synchronize the base station to the sensor. When the units 67 are synchronized, the data will be received again and the base station will return to normal operation mode. Do not reset the power of the base station otherwise all 175 sets of recorded weather history data for transferring to the PC will be lost (for full details of PC use, please see PC user manual in the enclosed Heavy Weather CD-ROM). However if you wish to make a full reset of the base station and return to the original factory settings, simultaneously press and hold the PRESSURE and WIND keys for about 5 seconds.

The base station will beep once and the entire LCD will light up for 5 seconds and go back to the original factory settings. This process will clear all previous user defined values and all weather history recordings. Factory default settings: The following table shows the factory default values of the weather station:
Matter: Time Date Time zone Alarm time Relative air pressure Weather-picture threshold LCD contrast level Rainfall per impulse Storm alarm Relative air pressure alarm Indoor temperature alarm Outdoor temperature alarm Indoor humidity alarm Outdoor humidity alarm Wind chill alarm Default Setting: 0:00 01.01.2001 0 0:00 1013.

0 hPa 3 hPa 5 (1-8 levels) 0.518mm 5 hPa 960.0 hPa (low) 10.0°C (low) 0.0°C (low) 35%RH (low) 45%RH (low) 10.0°C (low) 1040.0 hPa (high) 30.0°C (high) 40.0°C (high) 65%RH (high) 70%RH (high) 30.0°C (high) 68 Dew point alarm Rainfall 24h alarm Rainfall 1h alarm Wind Speed Wind direction alarm 0.0°C (low) 50.0mm 1.0mm 1km/h (low) None set 30.0°C (high) 100km/h (high) Note: All alarm default values are deactivated at the start up and any alarm must be activated by the user otherwise it will not sound. 11.

Function Description of the Weather Station After setting up, the following data will be displayed in different sections on the LCD. If this is not the case please observe the notes on "Interferences" below. LCD Section 1: Time, date, seconds, time zone, weather forecasting icons with tendency arrows, air pressure, and respective alarms sections LCD Section 2: Indoor and outdoor temperature and relative humidity, wind chill, dew point, rainfall, and respective alarms sections LCD Section 3: Wind direction, wind speed, and respective alarms sections 69 Time & Date (LCD Section 1) If the DCF77 icon (icon 2) is ON and not flashing, it means that the DCF77 radio-controlled time and date are has been received. Press the PLUS(+) key to change the format of date display between date/month/year, weekday/date/month, seconds, alarm set time and time zone. Weather forecasting (LCD Section 1) The three weather icons Sunny, Cloudy and Rainy represent the weather forecasting. There are also two weather tendency indicators to show the air pressure tendency either side of the weather icons. Sunny Cloudy Rainy Notes to hPa sensitivity setting for weather forecasting: The hPa (Hekto-Pascal) pressure sensitivity can be set to suit the user's requirement for weather forecasting from 2 hPa to 4 hPa (see Basic Programming below). For areas that experience frequent changes in air pressure (which does not necessarily reflect a change in the weather) requires a higher hPa setting compared to an area where the air pressure is stagnant. For example if 3 hPa is selected, then there must be a fall or rise in air pressure of at least 3 hPa before the weather station will register this as a change in weather. Air Pressure (LCD Section 1) The air pressure reading is displayed here.

Press the PRESSURE key to toggle between relative and absolute air pressure displays. Notes to Absolute and Relative Air Pressure: Absolute air pressure provides the display of the true measured air pressure of the current time and location. This is not programmable and the absolute air pressure range of the weather station is from 760 hPa to 1099 hPa (standard air pressure at an altitude of 2,300 meters is around 760 hPa). 70 Relative air pressure is the one value that is calculated back to sea level from the local absolute air pressure and can thus be taken as a reference for weather condition and weather development for the entire country.



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Indoor temperature high alarm and low alarm setting 1) Press the ALARM key to enter the normal time alarm 2) Press the ALARM key again to enter indoor temperature high alarm set mode 3) Press and hold the SET key to enter the indoor temperature high setting values (digits will start flashing) and set the desired indoor temperature high by using the PLUS(+) or MINUS (-) keys 4) Press ALARM key to confirm and press the MIN/MAX key to return to the normal display mode or press the ALARM once more to toggle to the indoor temperature low alarm set mode. 5) Press and hold the SET key to enter the indoor temperature low setting values (temperature digits will start flashing) and set the desired indoor temperature low by using the PLUS(+) or MINUS(-) keys 6) Press ALARM key to confirm and press the MIN/MAX key to return the normal display mode or press the ALARM once more to toggle to another alarm setting mode. Outdoor temperature high alarm and low alarm setting 1) Press the ALARM key to enter the normal time alarm 2) Continue to press the ALARM key until you reach the outdoor temperature high alarm set mode 78 3) Press and hold the SET key to enter the outdoor temperature high setting values (temperature digits will start flashing) and set the desired outdoor temperature high by using the PLUS(+) or MINUS (-) keys 4) Press ALARM key to confirm and press the MIN/MAX key to return to the normal display mode or press the ALARM once more to toggle to the outdoor temperature low alarm set mode. 5) Press and hold the SET key to enter the outdoor temperature low setting values (digits will start flashing) and set the desired outdoor temperature low by using the PLUS(+) or MINUS(-) keys 6) Press ALARM key to confirm and press the MIN/MAX key to return the normal display mode or press the ALARM once more to toggle to another alarm setting mode.

Indoor humidity high alarm and low alarm setting 1) Press the ALARM key to enter the normal time alarm 2) Continue to press the ALARM key until you reach the indoor humidity high alarm set mode 3) Press and hold the SET key to enter the indoor humidity high setting values (% digits will start flashing) and set the desired indoor humidity high by using the PLUS(+) or MINUS (-) keys 4) Press ALARM key to confirm and press the MIN/MAX key to return to the normal display mode or press the ALARM once more to toggle to the indoor humidity low alarm set mode. 5) Press and hold the SET key to enter the indoor humidity low setting values (digits will start flashing) and set the desired indoor humidity low by using the PLUS(+) or MINUS(-) keys 6) Press ALARM key to confirm and press the MIN/MAX key to return the normal display mode or press the ALARM once more to toggle to another alarm setting mode. Outdoor humidity high alarm and low alarm setting 1) Press the ALARM key to enter the normal time alarm 2) Continue to press the ALARM key until you reach the outdoor humidity high alarm set mode 79 3) Press and hold the SET key to enter the outdoor humidity high setting values (digits will start flashing) and set the desired outdoor humidity high by using the PLUS(+) or MINUS (-) keys 4) Press ALARM key to confirm and press the MIN/MAX key to return to the normal display mode or press the ALARM key once more to toggle to the outdoor humidity low alarm set mode. 5) Press and hold the SET key to enter the outdoor humidity low setting values (digits will start flashing) and set the desired outdoor humidity low by using the PLUS(+) or MINUS(-) keys 6) Press ALARM key to confirm and press the MIN/MAX key to return the normal display mode or press the ALARM once more to toggle to the to enter another alarm setting mode. Wind chill high alarm and low alarm setting 1) Press the ALARM key to enter the normal time alarm 2) Continue to press the ALARM key until you reach the wind chill high alarm set mode 3) Press and hold the SET key to enter the wind chill high setting values (digits will start flashing) and set the desired wind chill high by using the PLUS(+) or MINUS (-) keys 4) Press ALARM key to confirm and press the MIN/MAX key to return to the normal display mode or press the ALARM key once more to toggle to the wind chill low alarm set mode.

5) Press and hold the SET key to enter the wind chill low setting values (digits will start flashing) and set the desired wind chill low by using the PLUS(+) or MINUS(-) keys 6) Press ALARM key to confirm and press the MIN/MAX key to return the normal display mode or press the ALARM once more to toggle to another alarm setting mode. Dew point alarm high alarm and low alarm setting 1) Press the ALARM key to enter the normal time alarm 2) Continue to press the ALARM key until you reach the dew point high alarm set mode 80 3) Press and hold the SET key to enter the dew point setting values (digits will start flashing) and set the desired dew point high by using the PLUS(+) or MINUS (-) keys 4) Press ALARM key to confirm and press the MIN/MAX key to return to the normal display mode or press the ALARM key once more to toggle to the dew point low alarm set mode. 5) Press and hold the SET key to enter the dew point low setting values (digits will start flashing) and set the desired dew point low by using the PLUS(+) or MINUS(-) keys 6) Press ALARM key to confirm and press the MIN/MAX key to return the normal display mode or press the ALARM once more to toggle to another alarm setting mode. Rainfall 24h alarm setting 1) Press the ALARM key to enter the normal time alarm 2) Continue to press the ALARM key until you reach the rain 24 hour alarm set mode 3) Press and hold the SET key to enter the rain setting values (digits will start flashing) and set the desired rain values by using the PLUS(+) or MINUS (-) keys 4) Press ALARM key to confirm and press the MIN/MAX key to return to the normal display mode or press the ALARM key once more to toggle to another alarm setting mode. Rainfall 1h alarm setting 1) Press the ALARM key to enter the normal time alarm 2) Continue to press the ALARM key until you reach the rain 1 hour alarm set mode 3) Press and hold the SET key to enter the rain setting values (digits will start flashing) and set the desired rain values by using the PLUS(+) or MINUS (-) keys 4) Press ALARM key to confirm and press the MIN/MAX key to return to the normal display mode or press the ALARM key once more to another alarm setting mode. Pressure high alarm and low alarm setting 1) Press the ALARM key to enter the normal time alarm 2) Continue to press the ALARM key until you reach the pressure high alarm set mode 81 3) Press and hold the SET key to enter the pressure setting values (digits will start flashing) and set the desired pressure high by using the PLUS(+) or MINUS (-) keys 4) Press ALARM key to confirm and press the MIN/MAX key to return to the normal display mode or press the ALARM key once more to toggle to the pressure low alarm set mode. 5) Press and hold the SET key to enter the pressure low setting values (digits will start flashing) and set the desired pressure low by using the PLUS(+) or MINUS(-) keys 6) Press ALARM key to confirm and press the MIN/MAX key to return to the normal display mode or press the ALARM once more to toggle to another alarm setting mode.



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Wind speed high alarm and low alarm setting 1) Press the ALARM key to enter the normal time alarm 2) Continue to press the ALARM key until you reach the wind speed high alarm set mode 3) Press and hold the SET key to enter the wind speed setting values (digits will start flashing) and set the desired wind speed high by using the PLUS(+) or MINUS(-) keys 4) Press ALARM key to confirm and press the MIN/MAX key to return to the normal display mode or press the ALARM key once more to toggle to the wind speed low alarm set mode. 5) Press and hold the SET key to enter the wind speed low setting values (digits will start flashing) and set the desired pressure low by using the PLUS(+) or MINUS(-) keys 6) Press ALARM key to confirm and press the MIN/MAX key to return the normal display mode or press the ALARM once more to toggle to another alarm setting mode. Wind direction alarm setting 1) Press the ALARM key to enter the normal time alarm 2) Continue to press the ALARM key until you reach the wind direction alarm set mode 3) Press and hold the SET key to enter the wind direction setting values.

4) Using the PLUS(+) or MINUS(-) keys select the desired wind direction and use the SET key to confirm or cancel each direction input 82 5) Press ALARM key to confirm and press the MIN/MAX key to return the normal display mode or press the ALARM once more to toggle to another alarm setting mode. Storm warning alarm setting Unlike the other weather alarms, the storm warning alarm is set by entering the main manual setting mode as follows: 1) Press the SET key to enter the manual setting mode 2) Continue to press the SET key until the Storm warning icon flashes (tendency arrow flashing downwards with the pressure values flashing) 3) Set the desired hPa pressure value (3 hPa - 9 hPa) using the PLUS(+) or MINUS(-) keys 4) Press the MIN/MAX key to confirm and return to the normal display. Storm warning alarm ON/OFF After storm warning alarm setting, the next mode to appear after pressing the SET key is the storm warning ON/OFF. Use the PLUS(+) or MINUS(-) key to change the status to AON or AOFF. Default setting is ON: Should the air pressure drop equal or below the pre-set hPa value within the last 6 hour period, then the downward tendency arrow will flash as an indication of possible storm. The base station will take hourly measurements as a point of reference. The storm-warning indicator will stop flashing once the air pressure becomes more stable. Master Alarm BUZZER OFF The time and all the weather alarms may have buzzer sound set to OFF by holding the MINUS(-) key down for about 3 seconds in normal display mode and the BUZZER OFF icon appears on the bottom left of the LCD. When the BUZZER OFF is displayed, the time and all other weather alarms when activated will only flash but not sound regardless if that particular alarm has been set to the ON. To deactivate the BUZZER OFF, press the MINUS(-) key once more.

83 General Alarm Icon The general alarm icon on the bottom right corner of the LCD will appear when any weather alarm is activated to show the user that a set weather condition has been reached. The activated alarm can be determined by checking the set alarm values against the MIN/MAX values reached. To deactivate the general weather alarm icon, press the ALARM key. Important When entering the alarm set mode for a specific weather or temperature condition, the corresponding alarm is automatically enabled (ON) when the SET key is pressed, regardless of its previous setting and the alarm value will flash to indicate that it has been activated. Press the ALARM key to confirm the setting and continue pressing the ALARM key to toggle through each alarm mode until it returns to the normal display mode or press the MIN/MAX key at any time to exit the alarm setting modes.

When a set weather alarm condition has been activated, that particular alarm will sound and flash for approximately 2 minutes but will continue to flash until weather conditions have become more steady. Weather Alarms The weather alarms are settable for when certain weather conditions are met according to the users requirements. For example, the user can set the thresholds for the outdoor temperature to +40° (high) and -10° (low), whilst e only C C enabling the high alarm and disabling the low alarm (i.e. temperatures <-10° won't trigger alarm, but temper atures C >+40° will).

C Alarm setting Storm threshold Air Pressure Outdoor Temperature Minimum 3 hPa 920.0 hPa -30.0° C Maximum 9 hPa 1080.0 hPa +69.9° C 84 Indoor Temperature Humidity (all) Rainfall 24h Rainfall 1h Wind -9.9° No C. alarm will sound if the minimum indoor temperature alarm is set below -9.9°C. 1% RH 0.0 mm 0.

0 mm 0.0 m/s +59.9° C 99% RH 1000 mm. 1000 mm 50.0 m/s 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 user set level, a hysteresis function has been implemented for each weather alarm. For example, if the high temperature alarm is set to +25° and the C current value moves to +25° the alarm will be act ivated (if it C, has been enabled). Now when the temperature drops to +24.9° or below and thereafter again increases to beyond C +25° the data will be blinking, but no alarm will be activated. C, It has to drop to below +24° (with a pre-set hyste resis of C 1° so that the alarm can be produced again. Hyst eresis C) values for the various weather data types are given in the following table: Weather data Temperature Humidity Air pressure Rainfall 24h Rainfall 1h Wind 16.

Hysteresis 1° C 3% RH 1 hPa 5.0mm 0.5mm 10 km/h Auto memory for stored values The base station has a memory back up system, which is used to memorize user-defined settings for when the batteries are changed or if a power failure occurs. User defined units 85 are automatically updated each time these are changed. The base station will memorize the following user defined units: 17.

Time zone 12/24h time display mode Unit settings (temperature, pressure, rainfall, wind) Air pressure offset for calculation of relative air pressure Weather picture threshold Storm warning threshold LCD contrast Alarm time Weather Alarm thresholds State of alarms (enabled/disabled) Rainfall total value and reset time/date Accessories: adding cable extensions For your convenience, additional telephone cables to increase the connection distance between each of the units may be purchased from any reputable hardware store. Simply add these to the current cables to extend your cable connection distance. Telephone Extension Cables When securing the cables during mounting, ensure that base station can receive the weather data since increasing the cables lengths may also increase levels of interference and result with reception difficulties.



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Interference levels will greatly depend on the surrounding area for example setting up on or near metal piping may considerably reduce reception. For best results, do not to add more than 10 meters of extension cable from item to item onto the existing cable 86 lengths as this may reduce reception levels. Again, reception and interference levels will greatly depend on the surrounding environment at your point of mounting. Note: It is important to keep all the connected extension heads away from rain, moisture and other extreme weather conditions as exposure can cause short circuits and damage to this item. 18. Changing batteries: Battery change only in the thermo-hygro-sensor: 1. Open the battery cover 2. Remove the old batteries and insert with new ones of the recommended type and replace the cover Once the sensor is powered up, press and hold the PLUS(+) key for approx. 2 seconds in the normal display mode, the base station will sound a short beep and synchronize to the sensor otherwise no weather data will be received. Battery change only in the base station: 1. Connect power adaptor to base station and power outlet. 2.

Open the battery cover located at the back of the base station. 3. Remove the old batteries, insert with new ones of the recommended type and replace the cover This method of battery replacement will result in no loss of MIN/MAX and history data. However in case of possible power failure, the base station will lose the MIX/MAX and all weather data recordings and will need to be synchronized to the sensors again by pressing the PLUS(+) key for 2 seconds. Note:

When batteries require replacement for the base station, the low battery indicator will light up on the LCD. Please participate in the preservation of the environment by properly disposing of all used up batteries and accumulators at designated disposal points. Never dispose of batteries in a fire as this may cause explosion, risk of fire or leakage of dangerous chemicals and fumes 19. Interferences and problems with operation Remedy Reduce distance between transmitters and receiver to receive signal Find a different location for sensors and/or receiver. See also Item 'Transmission Range' below. Problem & cause Distance between transmitters and receiver too long.

High shielding materials between the units (thick walls, steel, concrete, isolating aluminum foil and etc.) Interference from other sources (e.g. wireless radio, headset, speaker, etc. operating on the same frequency) No Reception after adding extension cables Reception then no reception - loss of transmission signal from the sensor to the base station Find a different location for the sensors and/or base station.

Neighbors using electrical devices operating on the 433MHz signal frequency can also cause interference with reception Find a new location for the sensors and/or base station. Recommend not adding more than 10 meter extension cables between units to the existing cable lengths as this will increase the chance data reception problems. Press and hold the PLUS(+) key for 2 seconds to synchronize the base station to the sensors for weather data reception. If still no signal, then change the sensor batteries and synchronize the units again. 88 Poor contrast LCD or no reception or low batteries in sensors or receiver.

Check the LCD contrast setting or change batteries (check low battery indicator on the LCD) Quite frequently interferences are only of a temporary nature and may be easily overcome. If there are wireless headsets, remote babysitters or other devices working on 433MHz in your house or in the vicinity, their switch-on time is mostly limited. Furthermore most of these devices allow the change to an interference-free frequency. Such measures will effectively overcome interferences. 20. Transmission Range The transmission distance from the thermo-hygro sensor to the base station in open space under optimum conditions is 100 meters. Although the signal transmission may travel through solid surfaces or objects, the following points should be avoided if possible:

High frequency interferences of any kind. Constructions of any kind or trees. The distance of transmitter and receiver to conducting planes or object (including the human body or the ground) does influence the transmission characteristics and thus the transmission distance. Broadband interferences in municipal areas can reach levels reducing the signal/noise ratio over the entire frequency band, thus also reducing the transmission distance.

@@@Do not use abrasives or solvents. @@Also clean the seesaw of the sensor with a damp cloth and check by lightly tapping with your finger that it can move freely from side to side. Do not clean the funnel with the bottom half of the rain sensor attached nor the bottom part itself under running water. This may bear the danger of water entering the unit's inner parts and cause damages. Do not immerse the base station in water. Should there be damage to this product, please do not attempt to make any repairs. Please take this unit to a qualified technician. Opening or improper handling of the units will invalidate any guarantee. Specifications 22. Outdoor data Transmission Distance in Open Field: 100 meters max.

Temperature Range: -29.9° to +69.9° (show "OFL" if C C outside range) Resolution : 0.1° C Measuring Range Rel. Humidity : 10% to 99% Rain Volume Display : 0 to 999.

9mm (1h and 24h rainfall) 0 to 2499.9mm (Total rainfall) Resolution : 0.1mm Wind Speed : 0 to 180 km/h or 0 to 50 m/s Resolution : 0.1m/s Wind Direction : Graphic Resolution 22.5 Degrees, Numerical Resolution, Letter format 433MHz data transmission: Measuring interval thermo-hygro sensor : 32 sec (if wind factor>10m/s) or 128sec (if wind factor<10m/s) 10 minutes (if the base station fails to receive any data after 5 attempts in a row; all outdoor data readings will display "--", except for the rain value) With wire data transmission: Measuring interval thermo-hygro sensor: 8 seconds Indoor data Pressure/temperature : 4 times per minute 90 Indoor Temperature Range : -9.

9° to + 59.9° (shows C C "OFL" if outside range) Resolution : 0.1° C Measuring Range Rel. Humidity : 1% to 99% Resolution : 1% Relative humidity checking interval : 3 times per minute Measuring Range Air Pressure : 760 hPa to 1099 hPa (Standard air pressure at an altitude of 2,300 meters is around 300 hPa) Resolution : 0.1 hPa Alarm duration : 2 minutes (approx.) Power consumption Base Station Batteries : 3 x AA, IEC LR6, 1.5V (Alkaline recommended) or AC power : INPUT 230V C 50HZ (use the provided AC/DC adapter only) Thermo-hygro sensor : 2 x AA, IEC LR6, 1.5V Battery life using 433MHz : pproximately 12 months (alkaline batteries recommended) Battery life using cable connection : approximately 6 months (alkaline batteries recommended) Dimensions (L x W x H): Base Station : Thermo-hygro sensor : Rain sensor : Wind sensor : 23. · 118 x 30.



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5 x 178 mm 71.

5 x 73 x 136 mm 140 x 70 x 137 mm 250 x 77.9 x 277.6 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 · 91 · · · · · 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. This product must however not be thrown in general rubbish collection points. As stated on the gift box and labeled on the product, reading the "User manual" is highly recommended for the benefit of the user. 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 not to be used for medical purposes or for public information.

This product is only designed to be used in the home as indication of the future weather and is not 100% accurate. Weather forecasts given by this product should be taken only as an indication and not as being totally accurate. The specifications of this product may change without prior notice. This product is not a toy. Keep out of the reach of children.

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