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You can read the recommendations in the user guide, the technical guide or the installation guide for LA CROSSE TECHNOLOGY WS8610. You'll find the answers to all your questions on the LA CROSSE TECHNOLOGY WS8610 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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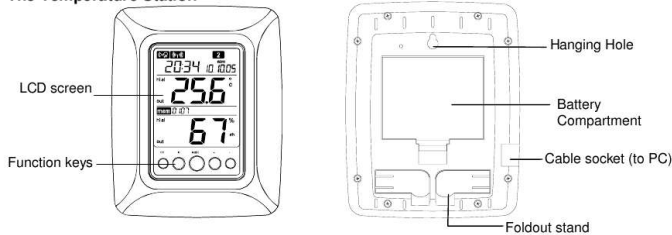
WIRELESS 433 MHz TEMPERATURE STATION Instruction Manual

INTRODUCTION:

Congratulations on purchasing this revolutionary 433MHz temperature Station which provides advanced data-logging and data-analysis functions for up to three outdoor temperature readings. The temperature station is connectable to PC by the COM port and data importing to PC is allowed. By applying the smart software provided, user may perform data analysis and statistics conveniently in PC. With easy to use keys, this innovative product is ideal for home and professional usages.

FEATURES:

The Temperature Station



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Manual abstract:

5V batteries. To install and replace the batteries, please follow the steps below: 1. Insert finger or other solid object in the space at the bottom center of the battery compartment and lift up to remove the cover. 2. Insert batteries observing the correct polarity (see marking). 3. Replace compartment cover. SIZE AA LR6 SIZE AA LR6 SIZE AA LR6 HOW TO INSTALL AND REPLACE BATTERIES IN THE TEMPERATURE TRANSMITTER The Outdoor Temperature transmitter uses 2 x AAA. IEC LR03, 1.5V batteries.

To install and replace the batteries, please follow the steps below: 1. Remove the battery cover 2. Insert the batteries, observing the correct polarity (see battery compartment marking) 3. Replace the battery cover on the unit Battery compartment 3 BATTERY CHANGE: User shall replace batteries of the temperature station when the battery low indicator is displayed at the LCD. If user does not replace batteries, working error may be resulted.

Note: After changing batteries in temperature station, there is no need for user to reset the temperature station. In fact, the temperature station can remember all transmitter information and sequence as per the pervious set-up. However, user may require to reset the desired LCD contrast, Alarm On/Off condition and the Clock (by re-entering the date and time manually or simply wait for the DCF time signal). The "Average" value display for particular channel will only be calculated from the data after battery change. User needs to carry out the re-learning of the particular transmitter after replacing batteries to it.

See "LEARNING/ REMOVING A TRANSMITTER (CHANNEL)" for the procedures of relearning a transmitter. 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 depot. 4 SETTING UP 1. Insert batteries into the Temperature station (see "How to install and replace batteries in the Temperature" above). Once the batteries are in place, all segments of the LCD will light up briefly. Then the indoor temperature and humidity will be displayed. The time will be shown 0:00 and the date as 1.1.

04. Note: If the indoor temperature and humidity are not displayed after 15 seconds, remove the batteries and wait for at least 2 minutes before reinserting them. Also check if the battery has been used up. User is recommended to use new alkaline batteries to the units. There is a four-minute time for user to set up all transmitters one by one, after inserting batteries to the temperature station. The below steps 2 to 4 shall be completed within this 4-minute time. 2. Insert batteries to the first transmitter. The temperature station will start learning the transmitter. The outdoor Channel 1 (out 1) temperature and humidity readings will then be displayed.

User may observe the outdoor channel icon appear. (If this does not happen after 3 minutes, the batteries will need to be removed from both units and reset from step 1.) After the readings from the first transmitter (Channel 1) are successfully shown by the temperature station, insert batteries to the second transmitter. The outdoor "Channel 2" temperature and humidity readings will then be displayed. User may observe the outdoor channel icon appear.

Set up the third as described in the above steps. The temperature station will also try to receive the DCF time signal (radio controlled) after the transmitter signal reception. If after 10 minutes, the DCF time has not been received, press and hold the SET key for 3 seconds to enter the Set up mode for manual time setting. The clock of the temperature station will automatically attempt to receive the DCF time at midnight. When this is successful, the received time will override the manually set time.

The date is also updated with the received time. (Please refer also to notes on "Radio controlled Time Reception" and "Manual Setting"). 3. 4. 5. 6. 5 DCF-77 RADIO CONTROLLED TIME The time base for the radio controlled time is a Cesium Atomic Clock operated by the Physikalisch Technische Bundesanstalt Braunschweig which has a time deviation of less than one second in one million years. The time is coded and transmitted from Mainflingen near Frankfurt via frequency signal DCF-77 (77.5 kHz) and has a transmitting range of approximately 1,500 km. Your radio-controlled Temperature Station receives this signal and converts it to show the precise time in summer or wintertime.

The quality of the reception depends greatly on the geographic location. In normal cases, there should be no reception problems within a 1500km radius of Frankfurt. Once the outdoor reception test period is completed, the DCF tower icon in the clock display will start flashing in the upper center. This indicates that the clock has detected that there is a radio signal present and is trying to receive it. When the time code is received, the DCF tower becomes permanently lit and the time will be displayed. If the tower icon flashes, but does not set the time or the DCF tower does not appear at all, then please take note of the following: · Recommended distance to any interfering sources like computer monitors or TV sets is a minimum of 1.5 - 2 meters. · Within ferro-concrete rooms (basements, superstructures), the received signal is naturally weakened. In extreme cases, please place the unit close to a window and/ or point its front or back towards the Frankfurt transmitter. · During nighttime, the atmospheric disturbances are usually less severe and reception is possible in most cases.

A single daily reception is adequate to keep the accuracy deviation below 1 second. 6 FUNCTION KEYS: Temperature Station: There are 5 function keys in the Temperature Station: SET key Alarm key Plus key Mode key Minus key Set key · In normal display mode, press and hold for 3 seconds to enter the manual setting mode for the following: a. LCD contrast level b. Time zone c. Daylight saving time (On/ Off) d.

Radio-controlled time reception (On/ Off) e. 12/ 24 hour Display f. Time setting (Hour and Minute) g. Calendar setting (Year, Month and Day) h. Temperature unit (°C/ °F) setting i.

Re-learning/ Removing channels j. Number of channels to be saved to memory 7 · In view mode or alarm mode, press to go back to normal display mode Plus (+) and Minus () key · In normal display mode, press to select a channel (the indoor sensor or one of the outdoor transmitters) Press to make adjustment (increase or decrease) in different manual settings and alarm setting Mode key (MODE) · · · · In normal display mode, press to toggle between the following view mode: a. Maximum record of a selected channel (the indoor sensor or one of the outdoor transmitters, depending on the user's selection) b.



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Minimum record of a selected channel c. Average humidity and temperature readings of a selected channel (over the last 100 values stored in memory) d. The dew point temperature of a selected channel e. History readings in the memory of a selected channel In alarm setting mode, press to activate/ deactivate the temperature and humidity alarm. In manual setting mode, press to go back to normal display mode Press and hold for 3 seconds to reset Min/ Max record of a particular channel Press and hold for 5 seconds to reset Min/ Max record of all channels Alarm key (AL) · · · Press and hold for 3 seconds to enter the alarm setting mode. In alarm setting mode, press to toggle between the following settings: 1. high humidity alarm 2.

low humidity alarm 3. high temperature alarm 4. low temperature alarm In manual setting mode, press to go back to normal display mode 8 LCD Screen: The LCD screen is split into 4 sections displaying the Time/ Date, temperature, relative humidity and Memory status. Time reception icon (for DCF time) Buzzer-on icon Time Outdoor transmitter identification number Calendar display Temperature reading in °C/ °F Memory data display (showing no. of sets of unread data stored in memory) Outdoor data showing Relative humidity reading in RH% 9 MANUAL SETTINGS: In normal display mode, press and hold the SET key for 3 seconds to enter the manual setting mode for the following: a. LCD contrast setting b. Time zone setting c. Daylight saving time On/ Off setting d.

Radio-controlled time reception On/ Off setting e. 12/ 24 hour format setting f.

Time setting (Hour and Minute) g. Calendar setting (Year, Month and Day) h. Temperature unit (°C/ °F) setting i. Relearning or removing a transmitter j. Number of sets of outdoor channel to be saved to memory of temperature station LCD CONTRAST SETTING: Digits flashing The LCD contrast can be set within 8 levels, from LCD 0 to LCD7 (Default setting is "LCD 5"): 10 1.

2. 3. In normal display, press and hold the SET key until the digits "Lcd" starts flashing. Use the Plus (+) and Minus (-) key to view all levels of contrast. Select the desired LCD contrast.

Confirm with the mode or Alarm (AL) key to go back to the normal display mode. TIME ZONE SETTING: Digits flashing The time zone default of the Temperature Station is "0". To set a different time zone: 1. Press and hold the SET key until the digits "Lcd" starts flashing. 2. Press shortly the SET key one more time to enter the time zone setting. The digits "Zo" will be flashing. 3. Use the Plus and Minus key to set the time zone (-12 to 12 hr). 4.

Press the Mode or Alarm key to confirm and go back to the normal display mode. 11 DAYLIGHT SAVING TIME ON/OFF SETTING Note: · · · The function of day night time saving on/off is only applicable to specific area in United states using WWVB time sources. It is not applicable for DCF-77 signal in European countries. User may skip doing this setting for this European version temperature station. Setting of "dS On" or "dS off" will have no effects on the reception time. "dS off" setting is used for area with no day night time saving within US while "dS On" settings is for those area having day night time saving within US.

Digits flashing 1. 2. 3. 4.

Press and hold the OK key until the digits "Lcd" starts flashing. Press shortly the OK key two times to enter the daylight saving time setting. The digit "dS" will be flashing. Use the Plus and Minus key to set the daylight saving time function to "On" or "Off" mode. Press the Mode or Alarm key to confirm and go back to the normal display mode.

12 TIME RECEPTION ON/OFF SETTING: Digito the normal display mode. 17 LEARNING/ REMOVING A TRANSMITTER (CHANNEL) After replacement of batteries of a particular transmitter, it is necessary to learn the transmitter again in the learning mode. On the other hand, when user want to decrease the number of transmitters to be applied, he may remove the transmitter so that the data from this channel will not be displayed in the temperature station. The below procedures describe how to "re-learn" or "remove" a channel: 1. Press and hold the SET key until the digits "Lcd" starts flashing.

2. Press shortly the SET key eleven times to enter Learn/ Remove setting of channels. The digits "Lrn", "CH" and the channel icons will be flashing. Digit flashing Flashing 3. 4. 5. 6. Note: Press Plus to select Channel 1. The digit "1" will be flashing. Press Plus to set Channel 1 to "Re-learn" state (The channel icon will be flashing), or press Minus to remove Channel 1 (The channel icon will disappear).

Press SET key to select Channel 2. The digit "2" will be flashing. Repeat the above steps to Channel 2 to 3, setting them either in "re-learn" or "removed" state. Once a channel is removed, the temperature station will be "disconnected" form the channel and the data transmitted by this channel cannot be viewed at the temperature station. 18 THE NUMBER OF OUTDOOR TRANSMITTERS TO BE SAVED INTO THE SYSTEM MEMORY Digits flashing Up to 3 outdoor transmitters can be received by the temperature station. User may decide the number of transmitter data to be saved to the permanent memory of the temperature station. For instant, user may apply 3 transmitters but set to save the data only from particular 2 transmitters. To set the number of transmitters whose data are to be saved in the system memory: 1. Press and hold the SET key until the digits "Lcd" starts flashing. 2.

Press and release the SET key twelve times to enter transmitter number setting. The digit "Enr" will be flashing. 3. Use the Plus and Minus key to select the number of transmitter to be used with the temperature station (up to 3 transmitters) 4. Press the SET key one more time to confirm and go back to the normal display mode.

@@@The data stored in the memory for Channel 2 will be "-.-". @@@@The "avg" icon will be flashing.

@@@@@2. 3.

@@The humidity digits, high limit icon and the alarm icon will start flashing. Press the Mode key to select to "activate" or "deactivate" the high humidity alarm. ("Alarm On" icon displayed represents the alarm is on) High limit icon Humidity digit flashing Alarm On icon (If this icon does not show, the alarm is set to be off) 4. 5. Press the Plus or Minus key to set the desired value of the high humidity alarm threshold point. Press SET key to return to the normal display or press the Alarm key to enter the low humidity alarm setting. 26 To set the low humidity alarm: 1. 2. @@Then press the Alarm key shortly one more time to enter the low humidity alarm setting.



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The humidity digits, low limit icon and the alarm icon will start flashing.

Low limit icon Humidity digit flashing 3. 4. 5. Press the Mode key to select to "activate" or "deactivate" the low humidity alarm. ("Alarm On" icon displayed represents the alarm is on) Press the Plus or Minus key to set the desired value of the low humidity alarm point. Press SET key to return to the normal display or press the Alarm key to enter the high temperature alarm setting. 27 To set the high temperature alarm: 1. 2. In normal display, press the Plus or Minus key to select a channel (the sensor at the temperature station or one of the outdoor transmitters) Press and hold the al key for about 3 second to enter high humidity alarm setting. Then press shortly the Alarm key two more times to enter the high temperature alarm setting.

The temperature digits, high limit icon and the alarm icon will start flashing. High limit icon Temperature digits flashing 3. 4. 5. Press the Mode key to select to "activate" or "deactivate" the high temperature alarm.

("Alarm On" icon displayed represents the alarm is on) Press the Plus or Minus key to set the desired value of the high temperature alarm point. Press SET key to return to the normal display or press the Alarm to enter the low temperature alarm setting. To set the low temperature alarm: 1. In normal display, press the Plus or Minus key to select a channel (the sensor at the temperature station or one of the outdoor transmitters) 28 2. Press and hold the Alarm key for about 3 second to enter high humidity alarm setting.

Then press shortly the Alarm key three more times to enter the low temperature Alarm setting. The temperature digits, low limit icon and the alarm icon will start flashing. Low limit icon Temperature digits flashing 3. 4. 5. Note: · Press the Mode key to select to "activate" or "deactivate" the low temperature alarm. ("Alarm On" icon displayed represents the alarm is on) Press the Plus or Minus key to set the desired value of the low temperature alarm point. Press SET key to return to the normal display. The alarm allows user to set individually the high or low threshold upon his requirements. For example, the user can set the thresholds for temperature to 35°C (high) and 25°C (low), while only activating high temp alarm and deactivating low temp alarm.

In this case, the alarm will not trigger when temp. is lower than 25°C yet will trigger when temp is higher than 35.0°C. When the temperature or humidity is sensed to be out of the pre-set threshold value, the alarm will sound and the alarm icon will be present on LCD. User may press any key to stop the buzzer. If no · · · key is pressed, the buzzer will beep for two minutes yet the alarm signal icon will still be flashing until the temperature or humidity is within the pre-set range again. Once an alarm is triggered, the display switches to the latest triggered channel. In addition, the high/ low limit icon and IN/ OUT icon is flashing as long as the alarm condition is met. If an alarm is triggered, the alarm icon will be flashing until the temperature and humidity is back to the conditions within the preset threshold values. The Alarm icon and the corresponding high or low alarm icons will flash once the current temperature or humidity is out of the pre-set threshold value 30 MEMORY CAPACITY The temperature station provides data-logging function.

The temperature and humidity data are saved into the Memory of the temperature station at 5-minute intervals (recording one data set at every five minute). The number of sets of data stored is shown at the "mem" display. The data-storing capacity for different number of transmitters used are listed below: No. of transmitters adopted Max No. of sets of temperature and humidity data stored for each transmitter and the indoor sensor 0 or 1 ~3260 2 ~2510 3 ~2170 Note: · After the capacity has been reached, the first data will be overwritten by the latest one and so on.

CLEAR DATA IN THE TEMPERATURE STATION CLEARING THE MAX/MIN TEMPERATURE AND HUMIDITY DATA OF A PARTICULAR CHANNEL To clear the max/min data of a channel: 1. Press the Plus or Minus key to select a channel. 2. Press and hold the Mode key for 3 second. The maximum and minimum temperature/ humidity data and the time of record will be reset to the current value.

CLEARING THE MAX/MIN TEMPERATURE AND HUMIDITY DATA OF ALL CHANNELS To clear the max/min data of all channels: 1. Press and hold the Mode key for 5 second. The maximum and minimum temperature/ humidity data and the time of record will be reset to the current value. 31 CLEARING ALL STORED TEMPERATURE AND HUMIDITY DATA (FROM TEMPORARY MEMORY OF THE TEMPERATURE STATION) The on-going temperature and humidity data are stored at the ring buffer memory (a temporary memory area where the latest data will displace the oldest data once the memory capacity is reached). To clear this memory, the following step shall be performed: 1. Press both the Plus key and SET key and hold for about 2 seconds. Only the temperature and humidity records of all channels (indoor and the outdoor channels) will be cleared. So the average and history data will no longer exist. The memory display will show "mem 0000" after the data has been cleared. Note: The maximum/ minimum temperature and humidity data will not be cleared.

CLEARING ALL DATA AND SETTINGS OF THE TEMPERATURE STATION FROM THE PERMANENT MEMORY (FACTORY RESET) The factory reset needs to be launched if malfunction on the temperature station occurs. To reset the temperature station: 1. Ensure that the unit is in normal display, not displaying max, min, or history. And the unit is not making any DCF or HF reception. 2. Press the Set, plus, minus and mode key and hold for 3 seconds in following orders. The set key must be pressed and hold first, then the other three key must be pressed and hold also within 1s. Then hold the four keys for 3 seconds until you see running digits at top right area of LCD. Note: If the reset is not successfully initiated, user shall try from above step 1. again 32 Press and hold SET key first Immediately press these 3 keys at the same time.

Then hold the 4 keys together for about 3 seconds. 3. The running digits will be displayed for about 6 minutes, followed by the full segment display. User is then required to remove and re-insert batteries to complete the restart the unit. 33 The display will show some running digits when the temperature station is reset.

Full segment will be displayed- user need to remove and re-insert batteries to restart the temperature station. 34 After batteries are re-inserted, the station will automatically launch the learn mode. The signal receipt indicator will be displayed. User needs to set again the temperature station for the desired application.



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(See "SETTING UP" in previous clause) Note: · · If the battery level is low, the digits "No EPr" may be displayed on LCD after resetting, indicating that the power is too low for the temperature station to function normally.

In this case, the batteries shall be replaced. User is recommended to upload and save all the useful data to PC (if possible) before performing the factory reset. USING THE TEMPERATURE STATION WITH PC With the aid of the software supplied, the temperature station may provide the following additional functions to user. 1. Importing data from temperature station to PC 2. Printing the history file Procedures to install the software to PC and application of the software are described in the user manual of the PC software. ABOUT THE OUTDOOR TRANSMITTER The range of the Temperature transmitter may be affected by the temperature. At cold temperatures the transmitting distance may be decreased. Please bear this in mind when positioning the transmitters. Also the batteries may be reduced in power for the Temperature transmitter.

35 CHECKING FOR 433MH_z RECEPTION If the outdoor temperature data is not being received within three minutes after setting up (or outdoor display show "- -" in the outdoor section of the Temperature Station after 3 failed attempts during normal operation), please check the following points: 1. The distance of the Temperature Station or transmitters should be at least 2 meters away from any interfering sources such as computer monitors or TV sets. 2. @ @ 3. @ @ @ @ @ Should this happen accidentally then reset all units (see "SETTING UP" above) otherwise transmission problems may occur. The transmission range is around 100 meters from the Temperature transmitter to the Temperature Station (in open space). However, this depends on the surrounding environment and interference levels. If no reception is possible despite the observation of these factors, all system units have to be reset (see "SETTING UP" above). 36 POSITIONING THE TEMPERATURE STATION: The Temperature Station provides the option of table standing or wall mounting the unit.

Before wall mounting, please check that the outdoor temperature(s) can be received from the desired location(s). To wall mount: 1. Fix a screw (not supplied) into the desired wall, leaving the head extended out by about 5mm. 2. away from the base and hang the station onto the screw.

Remember to ensure that it locks into place before releasing. POSITIONING THE OUTDOOR TEMPERATURE TRANSMITTER The Outdoor Transmitter is supplied with a holder that may be attached to a wall with the screws supplied. To attach to the wall using screws, please follow the steps below: 1. Mark the wall using a pen through the holes in the holder to obtain the exact drilling position. 2.

Drill holes in the wall at the points marked. 3. Screw holder onto wall. 37 The mounting surface can affect the transmission range. If e.g. the unit is attached to a piece of metal, it may either reduce or increase the transmitting range. For this reason, we recommend not placing the unit on any metal surfaces or in any position where a large metal or highly polished surface is in the immediate proximity (garage doors, double glazing etc.). Before securing in place, please ensure that the Temperature Station can receive the signal from the Outdoor Temperature transmitter at the positions that you wish to situate them.

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.

38 SPECIFICATIONS: Temperature measuring range: Indoor : -9.9°C to +59.9°C with 0.1°C resolution +14°F to +139.8°F with 0.2°F resolution ("- -" displayed if outside this range) Outdoor : -29.9°C to +69.9°C with 0.1°C resolution -21.8°F to +157.

8°F with 0.2°F resolution ("- -" displayed if outside this range) Humidity measuring range: Indoor : 1% to 99% with 1% resolution ("- -" displayed if outside this range) Outdoor : 1% to 99% with 1% resolution ("- -" displayed if outside this range) Indoor temperature checking intervals : Every 15 seconds Indoor humidity checking intervals : Every 20 seconds Outdoor temperature checking interval : Every 5 minutes Outdoor humidity checking interval : Every 5 minutes Transmission range : up to 100 meters (open space) Power consumption: (alkaline batteries recommended) Temperature Station : 3 x AA, IEC LR6, 1.5V Transmitter : 2 x AAA, IEC LR03, 1.5V Dimensions (L x W x H): Temperature Station Transmitter : : 104.2 x 29.5 x 128.9 mm 56 x 24 x 80 mm 39

LIABILITY DISCLAIMER · · · · · 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. This manual may contain mistakes. No part of this manual may be reproduced without written consent of the manufacturer. R&TTE Directive 1999/5/EC Summary of the Declaration of Conformity : We hereby declare that this wireless transmission device does comply with the essential requirements of R&TTE Directive 1999/5/EC. For use in: Germany, Austria, Belgium, U.K., France, The Netherlands, Italy, Spain 40 .



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