

TOUCH SCREEN WEATHER STATION (WIND AND AIR PRESSURE) WEA22

Operation Manual

About this manual

Thank you and congratulations on selecting this professional weather station! We are sure that you will enjoy the benefits of accurate weather readings and the precise radio controlled time information that it offers. This manual will guide you step-by-step through setting up your WEA22 device. Use this manual to become familiar with your professional weather station, and save it for future reference.

Glossary of Common Terms

DCF/WWVB

The DCF or WWVB time signal is an AM modulated time-of-day signal broadcasted by the Federal Government of Germany or NIST from USA. The time base is generated from an atomic time generator which is accurate to 10 billions of one second.

LCD

"LCD" is an acronym for "Liquid Crystal Display". This is a common type of display screen used in televisions, computers, watches, and digital clocks.

BAROMETER & BAROMETRIC PRESSURE

A barometer is a device that measures the pressure of the air pushing on it—this measurement is called the barometric pressure. We don't actually feel the barometric pressure because the air pressure is pushing equally in every direction.

RELATIVE AIR PRESSURE

Relative air pressure is the same as the barometric pressure. The calculation of relative air pressure is a combination of the absolute air pressure and the altitude.

ABSOLUTE AIR PRESSURE

Absolute air pressure is the actual air pressure on the barometer without regard to altitude.

INCHES OF MERCURY (inHg)

Inches of Mercury is the common unit of measurement for air pressure in the United States.

HECTOPASCALS (hPa)

Hectopascals are the common units of measurement for air pressure in the International System (SI) of measurement. The hectopascal holds the same value

Important Note:

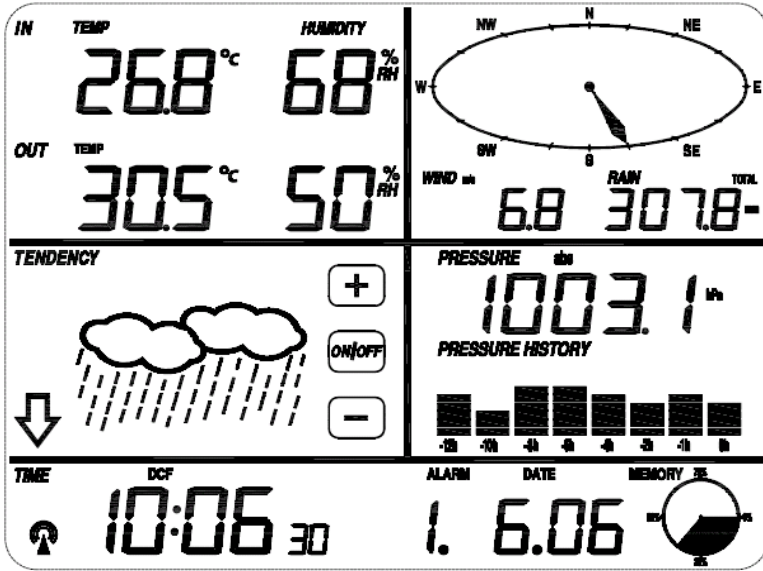
Before inserting batteries, please carefully read the operation manual.

The touch screen weather station WEA22 includes a base station(receiver), a transmitter unit, one wind direction sensor, one wind speed sensor, one rain gauge, USB cable and a PC software package on CD-ROM.

The Base Station is equipped with a Touch Screen LCD Monitor and allows the display of a large variety of time and weather data.

Left Top LCD:	IN-OUT temperature and humidity
Right Top LCD:	Wind and Rain measurement
Left Middle LCD:	Weather Forecast(Tendency)
Right Middle LCD:	Air Pressure and Air Pressure History
Bottom Line LCD:	Time and Date, Memory Data Usage

Note: The presence of the "Alarm-On icon" in the section means that the particular alarm has been enabled.



An added feature of the Weather Station is the readout of all measured and displayed time and weather data on a PC as well as the ability to upload the data to Internet Web Sites.

Important Operation Notes

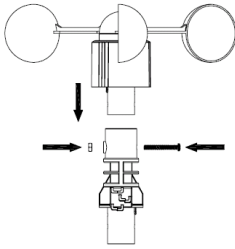
All actions and functions of the weather station are started on the touch screen by slightly touching (not pressing!) the related areas, touch the flashing ON/OFF or to make the corresponding selection or increase the value.

Every time a programming step is activated by touching a switching area on the Touch Screen a tone will sound, and the back light is switched on for a few seconds as well.

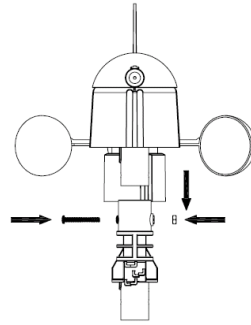
If no areas are pressed for 30 seconds, the LCD will automatically revert to the normal display mode (automatic time out).

Getting Started

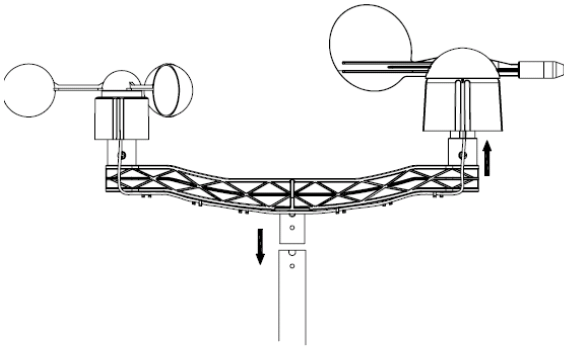
Setup Sensors



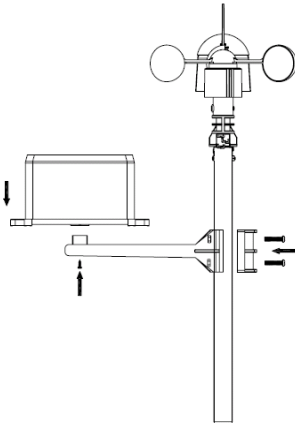
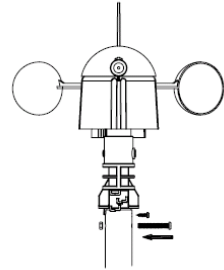
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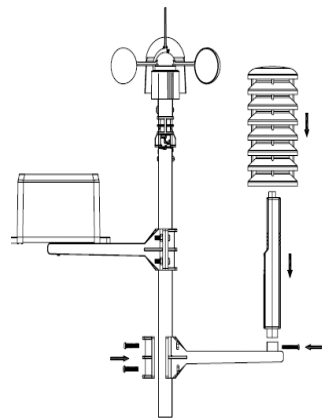
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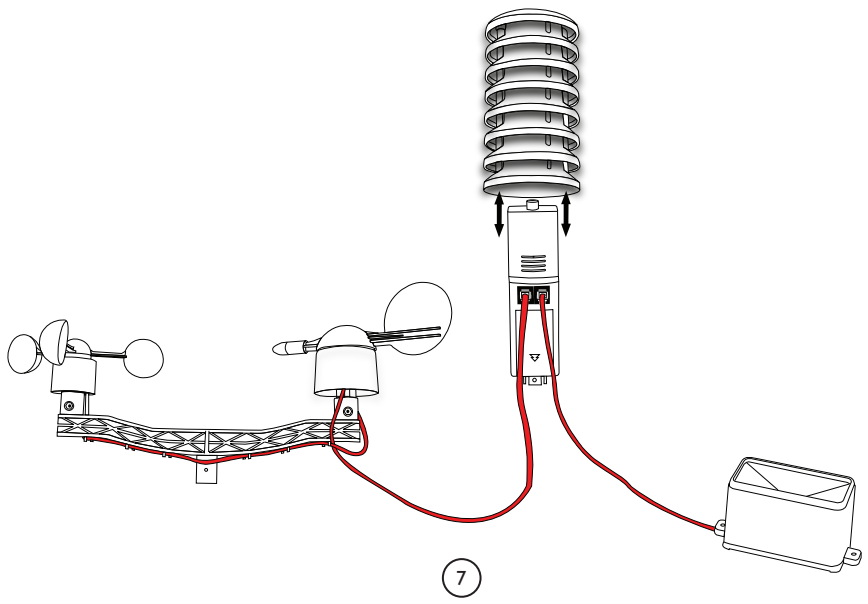
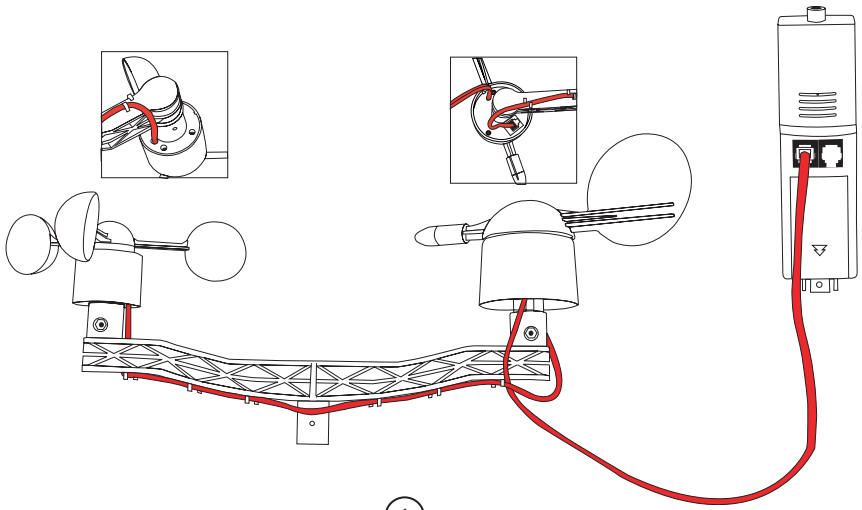
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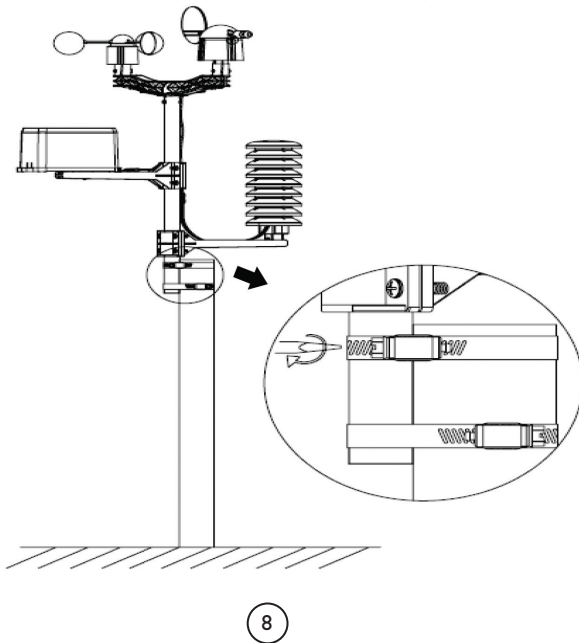


4



5





Important Notes:

On the edge of wind direction sensor, there are four alphabet letter of "N", "E", "S" and "W" representing the direction of North, East, South and West. Wind direction sensor has to be adjusted so that the directions on the sensor are matching with your real location. Permanent wind direction error will occur when the wind direction sensor is not positioned correctly during installation.

Wind speed sensor wire has to be inserted into the socket on wind direction sensor.

Wind direction sensor wire has to be inserted into the socket located on the thermo-hygro sensor with marking of "Wind" on top.

The rain sensor wire has to be inserted into the socket located on the thermo-hygro sensor with marking of "Rain" on top.

System Start

Insert two LR6(AA size) batteries into the transmitter, the LED located in the middle front case of transmitter will be turned on for 4 seconds, then it will be off and start to work normally. The transmitter will make a data transmission and then start radio controlled time reception routine. If time signal can be detected correctly, then the LED will start to flash 5 times indicating time signal has been found correctly. When time signal is bad and reception is not possible, the transmitter will terminate radio controlled time reception within one minute and resume normal mode. When there is a data transmission happened, the LED will be on for 20ms. During radio controlled time reception period, there is no transmission and normal transmission will only resume after time reception routine is complete. The longest time for radio controlled time reception is 5 minutes.

After inserting the batteries into the Weather Station, all LCD segments will be turned on for a few seconds, all possible display segments are turned on for checking.

After this, the weather station will make initial measurement and start to register the transmitter (the radio reception icon will be turned on). Before there is outdoor data received, it is not allowed to touch the LCD,

otherwise the outdoor sensor learning mode will be terminated right after the touch of LCD. When outdoor transmitter has been registered, the Touch Screen Weather Station will automatically switch to the normal display mode from which all further settings can be performed by the user.

Positioning

Once you have verified that all of the components of the weather station are working, they can be positioned in their permanent places. Before permanently mounting, make sure that all components work properly together at their chosen mounting or standing locations. If e.g. there appear to be problems with the 868 MHz radio transmission, they can mostly be overcome by moving the mounting locations.

Note: Commonly the radio communication between receiver and transmitter in the open field can reach a distance of up to 150 metres providing that there are no interfering obstacles such as buildings, trees, vehicles, high voltage lines, etc.

Radio interferences such as PC screens, radios or TV sets can, in bad cases, entirely cut off radio communication. Please take this into consideration when choosing standing or mounting locations.

Setting Up

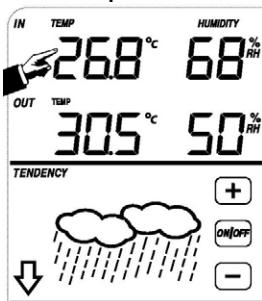
Note: Because of the default settings already determined by the manufacturer it may not be necessary for the majority of users to perform – except the Relative Air Pressure (see further down) - any further basic settings. Changes, however, can be easily made.

For basic settings, the following menu is started by touching the Touch Screen in the desired display area.

The basic settings can now be performed in the following successive order:

Note: setting procedure can be exited at any time by touching any other function area (except "+", "-" or "ON/OFF").

indoor temperature

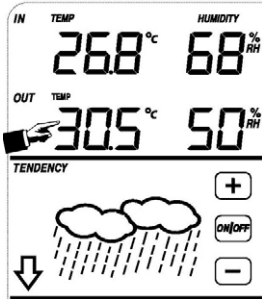


Activate the indoor temperature related setting by

- 1) Touch the INDOOR TEMPERATURE section, the \uparrow button and \square button will be flashing. Touch the \square button or \downarrow button to Shift the display unit between °C and °F
- 2) Touch the INDOOR TEMPERATURE section again to set the indoor temperature high alarm function, the \square , ON/OFF and \square button will be flashing, HI AL icon will light up. Touch the \square button or \downarrow button to change the value, hold the \uparrow button or \square button for 3s to change the number in great step. Touch the ON/OFF button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
- 3) Touch the INDOOR TEMPERATURE section the third time to set the indoor temperature low alarm function, the \uparrow , ON/OFF and \square button will be flashing, LO AL icon will light up. Touch the \uparrow button or \square button to change the value, hold the \uparrow button or \square button for 3s to change the

- number in great step. Touch the **ON/OFF** button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
- 4) Touch the INDOOR TEMPERATURE section the fourth time to display maximum indoor temperature record, the maximum records will be flashing, **MAX** icon will light up as well. Hold the flashing max value for 3s, the maximum value will be reset to current reading.
 - 5) Touch the INDOOR TEMPERATURE section the fifth time to display minimum indoor temperature record, the minimum records will be flashing, **MIN** icon will light up as well. Hold the flashing min value for 3s, the minimum value will be reset to current reading.

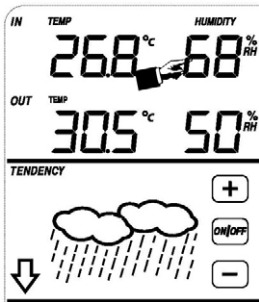
outdoor temperature



Activate the outdoor temperature related setting by

- 1) Touch the OUTDOOR TEMPERATURE section, **+** button and **-** button will be flashing. Touch the **+** button or **-** button to Shift the display between Outdoor Temperature, Wind Chill and Dew Point.
- 2) Touch the OUTDOOR TEMPERATURE section again, **+** button and **-** button will be flashing. Touch the **+** button or **-** button to Shift the display unit between °C and °F
- 3) Touch the OUTDOOR TEMPERATURE section the third time to set the outdoor temperature high alarm function, the **+**, **ON/OFF** and **-** button will be flashing, **HI AL** icon will light up. Touch the **+** button or **-** button to change the value, hold the **+** button or **-** button for 3s to change the number in great step. Touch the **ON/OFF** button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
- 4) Touch the OUTDOOR TEMPERATURE section the fourth time to set the outdoor temperature low alarm function, the **+**, **ON/OFF** and **-** button will be flashing, **LO AL** icon will light up. Touch the **+** button or **-** button to change the value, hold the **+** button or **-** button for 3s to change the number in great step. Touch the **ON/OFF** button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
- 5) Touch the OUTDOOR TEMPERATURE section the fifth time to display maximum outdoor temperature record, the recorded maximum value will be flashing, **MAX** icon will light up. Hold the flashing max value for 3s, the maximum value will be reset to current reading.
- 6) Touch the OUTDOOR TEMPERATURE section the sixth time to display minimum outdoor temperature record, the recorded minimum value will be flashing, **MIN** icon will light up as well. Hold the minimum value for 3s, the minimum value will be reset to current reading.

Indoor humidity



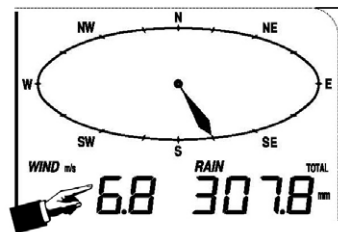
Activate the indoor humidity related setting by

- 1) Touch the INDOOR HUMIDITY section again to set the indoor humidity high alarm function, the **+**, **ON/OFF** and **-** button will be flashing, **HI AL** icon will light up. Touch the **+** button or **-** button to change the value, hold the **+** button or **-** button for 3s to change the number in great step. Touch the **ON/OFF** button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
- 2) Touch the INDOOR HUMIDITY section again to set the indoor humidity low alarm function, the **+**, **ON/OFF** and **-** button will be flashing, **LO AL** icon will light up. Touch the **+** button or **-** button to change the value, hold the **+** button or **-** button for 3s to change the number in great step. Touch the **ON/OFF** button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
- 3) Touch the INDOOR HUMIDITY section the third time to display maximum indoor humidity record, the recorded maximum value will be flashing, **MAX** icon will light up as well. Hold the maximum value for 3s, the maximum value will be reset to current reading.
- 4) Touch the INDOOR HUMIDITY section the fourth time to display minimum indoor humidity record, the recorded minimum value will be flashing, **MIN** icon will light up as well. Hold the minimum value for 3s, the minimum value will be reset to current reading.

Outdoor humidity







Procedures and settings are similar to Indoor humidity

Wind speed



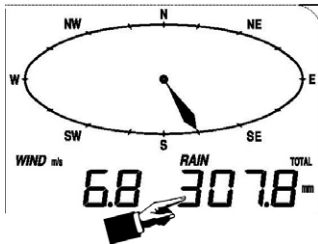
Activate the wind related setting by

- 1) Touch the WIND SPEED section, **+** button and **-** button will be flashing. Touch the **+** button or **-** button to Shift the display between Wind Average Speed and Gust Speed.
- 2) Touch the WIND SPEED section again, **+** button and **-** button will be flashing. Touch the **+** button or **-** button to select wind speed unit between km/h, mph, m/s, knots, bft
- 3) Touch the WIND SPEED section the third time to set the high alarm function, the **+**, **ON/OFF**

















and  button will be flashing, HI AL icon will light up. Touch the  button or  button to change the value, hold the  button or  button for 3s to change the number in great step. Touch the  button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).

- 4) Touch the Wind SPEED section the fourth time to set wind direction alarm function, the wind direction arrow will start to flashing. Touch + or - to select desired alarm for wind direction, press ON/OFF to enable or disable the wind direction alarm.
- 5) Touch the Wind SPEED section the fifth time to display maximum wind speed record, the recorded maximum value will be flashing, MAX icon will light up as well. Hold the maximum value for 3s, the maximum value will be reset to current reading.

Rain

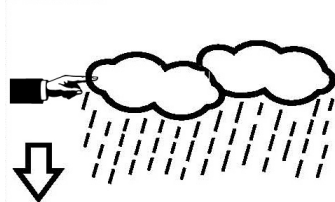





Activate the rain related setting by










- 1) Touch the rain section,  button and  button will be flashing. Touch the  button or  button to Shift the display between 1h,24h,week,month and total rain.
- 2) Touch the rain section again,  button and  button will be flashing. Touch the  button or  button to select wind speed unit between mm,inch.
- 3) Touch the rain section the third time to set the high alarm function, the ,  and  button will be flashing, HI AL icon will light up. Touch the  button or  button to change the value, hold the  button or  button for 3s to change the number in great step. Touch the  button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
- 4) Touch the rain section the fourth time to display current maximum rain fall record. Touch the rain section for 3s will reset the maximum rain fall value to current value.
- 5) Touch the rain section the fifth time to **reset rain fall value to 0** by pressing the rain section for 3s, then 1h,24h,week,month and total rain will be reset to 0.

Weather forecast

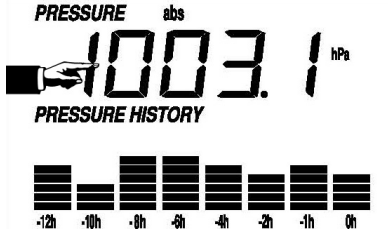
TENDENCY






















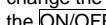

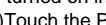





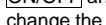


- 1) Touch the WEATHER FORECAST section,  button and  button will be flashing. Touch the 

- button or  button to Shift the display between SUNNY, PARTLY CLOUDY and CLOUDY, RAINY icon
- 2) Touch the WEATHER FORECAST section again,  button and  button will be flashing. Touch the  button or  button to set the pressure threshold from 2-4hPa(default 2hPa)
 - 3) Touch the WEATHER FORECAST section the third time,  button and  button will be flashing. Touch the  button or  button to set the storm threshold from 3-9hPa(default 4 hPa)

Pressure



- 1) Touch the PRESSURE section,  button and  button will be flashing. Touch the  button or  button to Shift the display between Absolute pressure and Relative pressure.
- 2) Touch the PRESSURE section again,  button and  button will be flashing. Touch the  button or  button to Shift the display unit between hPa, inHg and mmHg.
- 3) Touch the PRESSURE section the third time to set the Relative Pressure value. The  and  button will be flashing, rel icon will light up. Touch the  button or  button to change the value, hold the  button or  button for 3s to change the number in great step.
- 4) Touch the PRESSURE section the fourth time to set the pressure high alarm function, the  ,  and  button will be flashing, HI AL icon will light up. Touch the  button or  button to change the value, hold the  button or  button for 3s to change the number in great step. Touch the  button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
- 5) Touch the PRESSURE section the fifth time to set the pressure low alarm function, the  ,  and  button will be flashing, LO AL icon will light up. Touch the  button or  button to change the value, hold the  button or  button for 3s to change the number in great step. Touch the  button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
- 6) Touch the PRESSURE sections the sixth time to display maximum pressure record, to display maximum pressure, the recorded maximum value will be flashing, MAX icon will light up as well. Hold the maximum value for 3s, the maximum value will be reset to current reading.
- 7) Touch the PRESSURE section the seventh time to display minimum pressure record, to display minimum pressure record, the recorded minimum value will be flashing, MIN icon will light up as well. Hold the minimum value for 3s, the minimum value will be reset to current reading.

Note: when absolute pressure is selected, step 3 will be skipped since absolute pressure is selected for display.

Pressure bar graph

Touch the PRESSURE BAR GRAPH section and then press + or – to toggle the bar graph time scale between 12hrs or 24 hrs for pressure history.

Time



- 1) Touch the TIME section, \uparrow button and \downarrow button will be flashing. Touch the \uparrow button or \downarrow button to set the timezone.
 - 2) Touch the TIME section again, \uparrow button and \downarrow button will be flashing. Touch the \uparrow button or \downarrow button to Shift the 12/24 hours format.
 - 3) Touch the TIME section the third time, \uparrow button and \downarrow button will be flashing. Touch the \uparrow button or \downarrow button to set the DST ON or OFF (this function is only available for WWVB version, while for DCF version, this feature is not activated).
- Note:** "DST OFF" indicates that the feature is off and the internal real time clock will not change times automatically. "DST ON" indicates that the feature is on and the internal real time clock will change times according to the DST time schedule automatically. Some locations (Arizona and parts of Indiana) do not follow Daylight Saving Time, and should select "DST OFF".
- 4) Touch the TIME section the fourth time to set the hour, the \uparrow and \downarrow button will be flashing. Touch the \uparrow button or \downarrow button to change the value.
 - 5) Touch the TIME section the fifth time to set the Minute, the \uparrow and \downarrow button will be flashing. Touch the \uparrow button or \downarrow button to change the value.

Date



- 1) Touch the DATE section, \uparrow button and \downarrow button will be flashing. Touch the \uparrow button or \downarrow button to shift between alarm time, date and week date.
- 2) Touch the DATE section again, \uparrow button and \downarrow button will be flashing. Touch the \uparrow button or \downarrow button to Shift between DD-MM format and MM-DD format for the date.
- 3) Touch the DATE section the third time, \uparrow button and \downarrow button will be flashing. Touch the \uparrow button or \downarrow button to set the year. Hold the \uparrow button or \downarrow button for 3s to change the number in great step.
- 4) Touch the DATE section the fourth time, \uparrow button and \downarrow button will be flashing. Touch the \uparrow button or \downarrow button to set the month. Hold the \uparrow button or \downarrow button for 3s to change the number in great step.
- 5) Touch the DATE section the fifth time, \uparrow button and \downarrow button will be flashing. Touch the \uparrow button or \downarrow button to set the day. Hold the \uparrow button or \downarrow button for 3s to change the number in great step.
- 6) Touch the DATE section the sixth time, \uparrow button and \downarrow button will be flashing. Touch the \uparrow button or \downarrow button to set the alarm hour. Hold the \uparrow button or \downarrow button for 3s to change the number in great step.
- 7) Touch the DATE section the seventh time, \uparrow button and \downarrow button will be flashing. Touch the \uparrow button or \downarrow button to set alarm minute. Hold the \uparrow button or \downarrow button for 3s to change the number in great step. Touch ON/OFF to enable or disable time alarm function.

Memory

- 1) Touch Memory section to activate history data toggle display, \uparrow button and \downarrow button will be flashing. Press \rightarrow to toggle forward to see earlier weather history data together time stamp,

press + to see later history weather data. When history data displayed, the corresponding time will be displayed at the time section area(History data saving interval can only be changed using the PC software that comes with this product, the default history data saving time interval is preset to 30 minutes prior to shipment).

- 2) Touch Memory section again will trigger the memory clear procedure: the word of "CLEAR" will be flashing, the full memory usage icon will be flashing. Press and hold the memory full icon for 3 seconds will clear the memory.

PC Connection

As an important feature in addition to the display on the Touch Screen, the Weather Station allows the read-out of all measured and displayed time and weather data in form of complete history data sets on a PC.

Data Storage

For a comprehensive weather history, the Base Station allows the internal storage of up to 4080 complete sets of weather data with time and date. These data sets are being stored in non-volatile ring buffer memory (EEPROM) and will not be lost even in case of an interruption of power supply (e. g. change of batteries). In case the memory capacity of the Weather Station is exhausted the oldest data sets stored will be overwritten by the new ones entered.

Data Recall

Certain weather data or setting values can only be read out, processed, and displayed by means of a PC. Also the settings of the storing intervals from 5 minutes to 250 minutes for the storage of data sets can only be performed by means of a PC.

Connections and Software

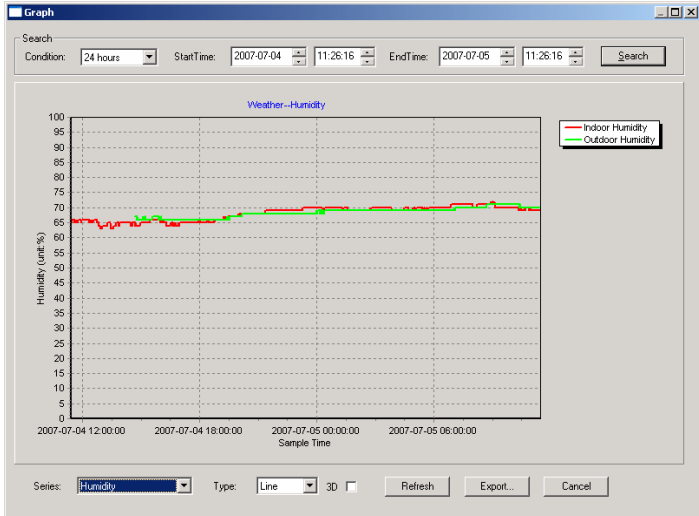
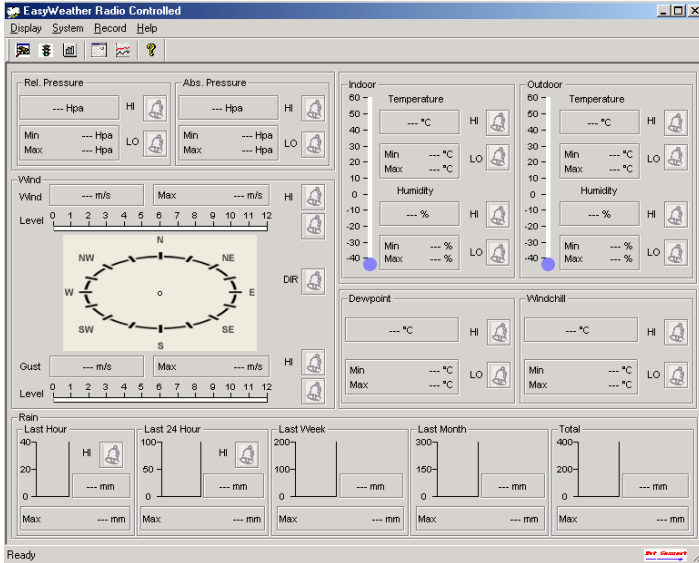
The wiring between Weather Station and PC takes place by means of an included USB cable. The EasyWeather software package, also included in the shipping contents, must be installed on the PC. This software allows the display of all present weather data with graphic symbols. It also allows the display, storage, and printing of history data sets, whose volume exceeding the maximum 4080 data sets of the Weather Station is only limited by the capacity of the PC's main memory.

PC software installation

The installation of WEA22 software is very simple: double click the setup.exe file and follow the steps popped up.

Make sure you are running the program under the administrator accounts of your windows PC platform. Otherwise the graphic function might not be working when graph display mode is needed to display all history data.

If you run the program for the first time, the current weather display will be displayed and at the sub line of the window, the program will show related information regarding the read of all history data into the PC. Please note however, when there is large amount of data is being uploaded, it will take a few minutes time before the system can respond to your setup settings. Otherwise it will display "read weather data fail" error message since the USB port is reading the data from the memory and the system is not able to respond any further job tasks.



When memory is full, it will take about two minutes to upload all history data into PC and it takes another two minutes to process all history data for graphic display.
 Further detailed PC software user manual can be found from the help menu.

Specifications

Outdoor data

Transmission distance in open field:	150m max(450 feet)
Frequency	: 868MHZ(Europe)/915MHZ(North America)
Temperature range	: -40°C--65°C(-40°F to +149°F)
Resolution	: 0.1°C (0.2°F)
Measuring range rel. humidity	: 10%~99%
Rain volume display	: 0 – 9999mm (show OFL if outside range)
Resolution	: 0.1mm (if rain volume < 1000mm) 1mm (if rain volume > 1000mm)
Wind speed	: 0-240km/h(0~100mph) (show OFL if outside range)
Measuring interval thermo-hygro sensor:	48 sec
Water proof level	: IPX3

Indoor data

Measuring interval pressure / temperature	: 48 sec
Indoor temperature range	: 0°C--50°C (32°F to + 122°F) (show OFL if outside range)
Resolution	: 0.1°C (0.2°F)
Measuring range rel. humidity	: 10%~99%
Resolution	: 1%
Measuring range air pressure	: 700-1100hpa (27.13inHg – 31.89inHg)
Resolution	: 0.1hpa (0.01inHg)
Alarm duration	: 120 sec

Power consumption

Base station	: 3XAA 1.5V LR6 Alkaline batteries
Remote sensor	: 2xAA 1.5V LR6 Alkaline batteries
Battery life	: Minimum 12 months for base station Minimum 24 months for thermo-hygro sensor

Remark: where outdoor temperature is lower than -20°C, make sure proper type of batteries to be used to assure that the device can get enough power to maintain its function properly. Normal alkaline batteries is not allow to be used since when outdoor temperature is lower than -20 °C, the battery's discharging capability is greatly reduced.



Please help in the preservation of the environment and return used batteries to an authorized depot.

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EasyWeather PC Software User Manual

1.0 General Information

This Weather Station is a high quality, easy to use weather monitoring system that reads, displays and records the weather data from internal as well as external sensors. Besides the internally measured values for indoor temperature, indoor humidity and air pressure the outdoor sensor will take data for temperature and humidity, wind and rainfall. Operation of these units is by wireless transmission to the Base Station.

After installing the "EasyWeather" program on this CD-ROM, your PC can display all indoor data as well as the weather data from the Base Station received from the external sensors. For operation, simply use the USB cable supplied and connect the Base Station to the PC. From now on you can start to track current and history weather information at your finger tips.

2.0 System Requirements

To install the "EasyWeather" software onto your PC, the minimum requirements are as follows:

Operating System: Windows NT4 (Service Pack >= 6a), Windows 2000, Windows XP, Windows Vista.

Internet Explorer 6.0 or above

Processor: Pentium III 500 MHz or above

Memory: at least 128MB, 256MB recommended

CD-ROM Drive

Base Station and PC must be connected by USB cable

3.0 Installation of the “EasyWeather” Software

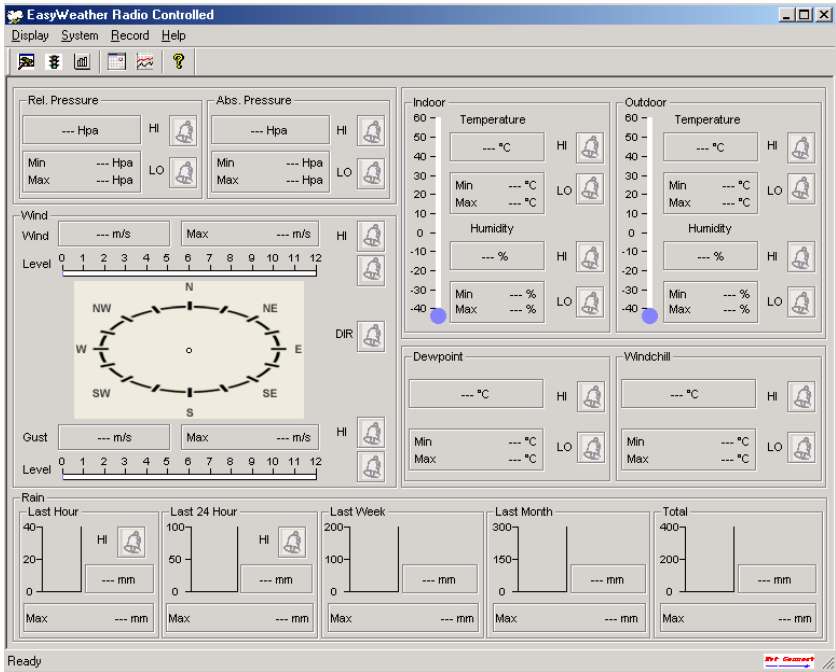
Firstly, the Base Station and the Outdoor Sensors should be connected and checked for correct function (see **Operation Manual for WEA22 Touch Screen Weather Station** for setting up the Weather Station). After successful checking, install the “EasyWeather” software as follows:

1. Switch on your PC and insert the CD-ROM into the CD-ROM Drive.
2. Double click “Setup.exe”
3. Select the installation process language option and click next
4. click next and select the destination folder(change directory when needed)
5. click next and the software will be installed automatically
6. press ok to finish the installation process
7. From “Start—All Programs—EasyWeahter” path and double click the “EasyWeather” icon to start application.



Note: The graphic function needs the software to be installed under the administrator account. If it is installed under limited user accounts, the graphic function of the software might not be working correctly.

4.0 Basic Settings of the “EasyWeather” Software

After the “EasyWeather.exe” program has been started, the following main window will appear on the PC screen:



All the settings from the base unit is mirrored into the PC software, so once you have done your setting on the base unit, then you don't need to make any setting changes on the PC software. However you can still easily make any setting changes you wanted from the PC and download the changes into the base station(the setting change will be refreshed when next full minute arrives on the base station).

When base unit is connected to PC, the icon of  will be displayed. If no base station is connected, then  will be displayed.

Function button:



: display and setup system configuration

Setup [X]

Time Zone: [Dropdown] Interval: [Text] Minute

Unit

Indoor Temperature: [Dropdown] °C Outdoor Temperature: [Dropdown] °C

Pressure: [Dropdown] Hpa Wind Speed: [Dropdown] m/s Rainfall: [Dropdown] mm

Display

Format: [Dropdown] Full Date Day: [Dropdown] mm-dd-yy Time: [Dropdown] 24H Axis: [Dropdown] 12 Hours

Outdoor Temperature: [Dropdown] Temperature Pressure: [Dropdown] Absolute Velocity: [Dropdown] Wind Rainfall: [Dropdown] Hour

Alarm Enable

Time Wind Direct

Indoor Humidity Low Indoor Humidity High Outdoor Humidity Low Outdoor Humidity High

Indoor Temperature Low Indoor Temperature High Outdoor Temperature Low Outdoor Temperature High

Windchill Low Windchill High Dewpoint Low Dewpoint High

Absolute Pressure Low Absolute Pressure High Relative Pressure Low Relative Pressure High

Wind Speed High Gust Speed High Hour Rainfall High Day Rainfall High

Pressure

Relative: [Text] Hpa Absolute: [Text] Hpa

[Save] [Cancel]

This section is used to set up PC software display, base station units, as well as able or disable the corresponding alarm function. Once you made your choice, press Save to make the setting effective.



: display and setup system alarm value

Alarm [X]

Time
Hour: Minute:

Indoor Humidity
High: % Low: %

Outdoor Humidity
High: % Low: %

Indoor Temperature
High: °C Low: °C

Outdoor Temperature
High: °C Low: °C

Windchill
High: °C Low: °C

Dewpoint
High: °C Low: °C

Absolute Pressure
High: inHg Low: inHg

Relative Pressure
High: inHg Low: inHg

Wind
High: km/h bit

Gust
High: km/h bit

Rain
High Hour: mm High 24 Hour: mm

Wind Direct

This section is used to set the desired time, high or low alarm value for the base unit. Once you made your choice, choose Save to make the setting effective. If you don't want to make any change, just press Cancel and exit without change.



: display min and max recorded value

Indoor Humidity		Outdoor Humidity	
Maximum	Time	Maximum	Time
76 %	2007-01-02 11:14	78 %	2007-01-03 23:48
Minimum	Time	Minimum	Time
63 %	2007-01-02 15:04	57 %	2007-01-02 08:20

Indoor Temperature		Outdoor Temperature	
Maximum	Time	Maximum	Time
34.0 °C	2007-01-02 16:12	45.8 °C	2007-01-01 12:02
Minimum	Time	Minimum	Time
28.9 °C	2019-05-24 13:14	27.4 °C	2007-01-02 18:40

Windchill		Dewpoint	
Maximum	Time	Maximum	Time
45.8 °C	2007-01-01 12:02	39.8 °C	2007-01-01 12:02
Minimum	Time	Minimum	Time
27.4 °C	2007-01-02 18:40	19.8 °C	2007-01-03 15:27

Absolute Pressure		Relative Pressure	
Maximum	Time	Maximum	Time
29.59 inHg	2007-01-02 04:51	29.86 inHg	2007-01-03 12:25
Minimum	Time	Minimum	Time
29.34 inHg	2019-05-28 16:09	29.47 inHg	2007-01-03 12:51

Wind		Gust	
Maximum	Time	Maximum	Time
9.7 km/h	2007-01-02 19:18	84.6 km/h	2007-01-03 12:05

Rain Maximum		24 Hours	
Hour	Time	0.0 mm	Time
0.0 mm	2007-01-03 11:14	0.0 mm	2007-01-03 11:14
Week	Time	Month	Time
0.0 mm	2007-01-03 11:14	0.0 mm	2007-01-03 11:14
Total	Time		
0.0 mm	2007-01-03 11:14		

This section is used to display the recorded min and max value recorded with time stamp. Min/Max reset can only be done through key operation on the base station.



: display listed history data

The screenshot shows a window titled "History Data" with a search interface and a data table. The search interface includes a "Condition" dropdown set to "an hour", "StartTime" (2007-07-10 11:25:58), and "EndTime" (2007-07-10 12:25:58). The data table below has the following columns: No, Time, Interval(mi), Indoor Humidity(%), Indoor Temperature(°C), Outdoor Humidity(%), and Outdoor Tem. The table contains 28 rows of data.


No	Time	Interval(mi)	Indoor Humidity(%)	Indoor Temperature(°C)	Outdoor Humidity(%)	Outdoor Tem
34	2007-07-10 11:59	1	65	32.8	65	32
35	2007-07-10 12:00	1	65	32.8	65	32
36	2007-07-10 12:01	1	65	32.8	65	32
37	2007-07-10 12:02	1	93	33.5	65	32
38	2007-07-10 12:03	1	93	33.5	65	32
39	2007-07-10 12:04	1	93	33.5	65	32
40	2007-07-10 12:05	1	95	34.1	65	32
41	2007-07-10 12:06	1	95	34.1	65	32
42	2007-07-10 12:07	1	95	34.1	65	32
43	2007-07-10 12:08	1	95	34.1	65	32
44	2007-07-10 12:09	1	94	34.0	65	32
45	2007-07-10 12:10	1	95	34.3	65	32
46	2007-07-10 12:11	1	90	33.9	65	32
47	2007-07-10 12:12	1	96	34.0	65	32
48	2007-07-10 12:13	1	92	33.4	65	32
49	2007-07-10 12:14	1	93	33.6	64	32
50	2007-07-10 12:14	1	84	33.0	64	32
51	2007-07-10 12:15	1	74	32.9	64	32
52	2007-07-10 12:16	1	70	33.0	64	32
53	2007-07-10 12:17	1	66	33.1	64	32
54	2007-07-10 12:18	1	66	33.1	64	32
55	2007-07-10 12:19	1	65	33.1	64	32
56	2007-07-10 12:20	1	65	33.1	64	32
57	2007-07-10 12:21	1	64	33.1	64	32
58	2007-07-10 12:22	1	64	33.1	63	32
59	2007-07-10 12:23	1	63	33.0	63	32
60	2007-07-10 12:24	1	63	33.0	63	32
61	2007-07-10 12:25	1	63	33.0	63	32

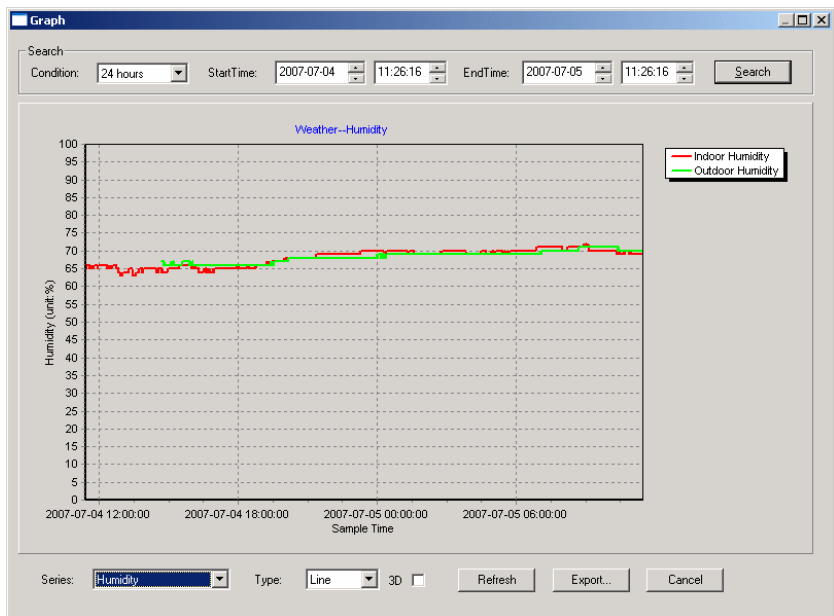
Buttons at the bottom: Refresh, Clear Data, Clear Memory, Graph..., Export..., Cancel.

This section is used to display recorded history data in a spread sheet. If you wanted to see all history data in a desired time period, choose the time duration and press Search to reload the history data. With the Export button, you can export the selected history data into text format file for other application purpose.

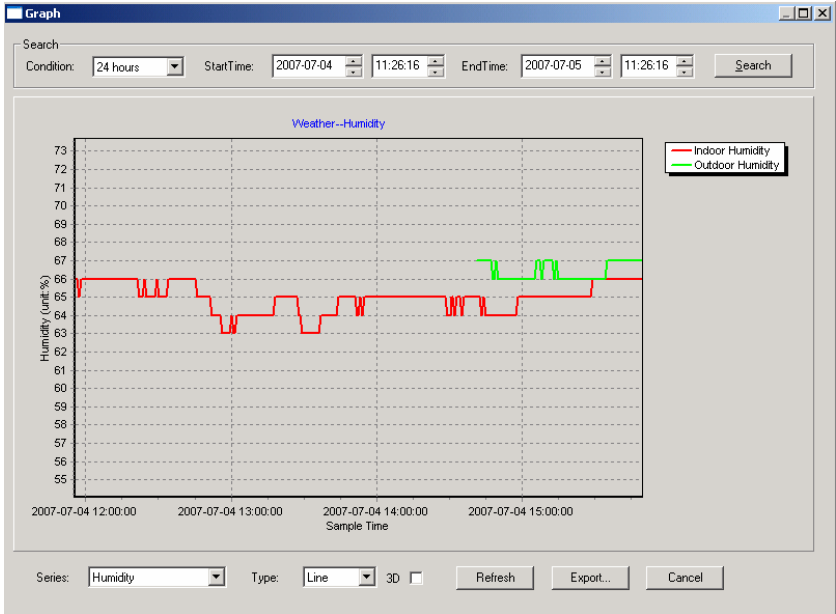
When memory on base station is full, press "Clear Memory" button to refresh the memory space on the base station (remember to upload all data before pressing this button).

If you wanted to start a new weather history record, press "Clear Data" button to clear up the data base, all history weather data will be deleted (if you would like to keep a back up history file before deleting all weather data, you can make a copy of the "EasyWeather.dat" file into another folder or just rename the "EasyWeather.dat" file, such as "Jan-07.dat", for future reference.

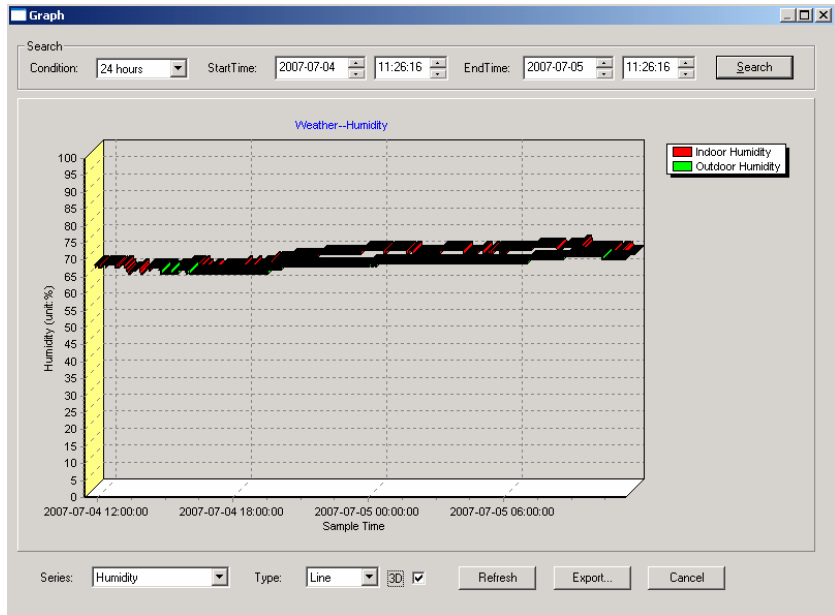
 : display history data in graph mode



In this section, you can see the history data plotted in graph format for easier observation. If you want to see more details, just use your mouse to select the area you wanted and the display will be automatically updated in more detailed scale:



Also you can see the graph in 3D mode by selecting the 3D check box:

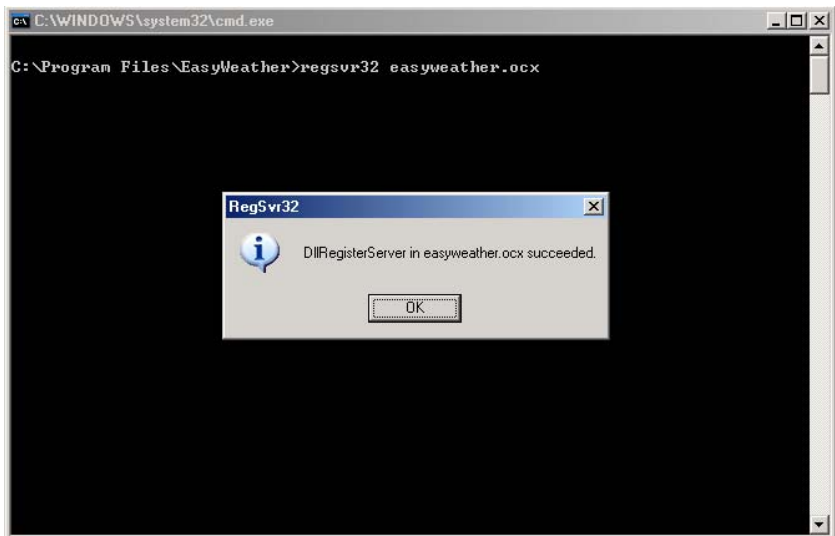


You can change the Y axel by scrolling the mouse up and down roller.

What to do if graph function is not working

This is the most encountered problem with this software. To make the graph function working properly, please check the following step:

- 1, find the folder where the "EasyWeahter.exe" file is located
2. Create a file name "reg_graph.bat" file with wordpad or notepad editor program
3. type "regsvr32 easyweather.ocx" and save the reg_graph.bat file
4. Double click "reg_graph.bat" file and it should register the graphic driver again. If successful, then the following window will be displayed:



Special Notes about time synchronization between PC and sub-station:

The PC software obtained its own time scale through the time interval marker from the base station history data, and the PC software automatically synchronizes the weather data with a time stamp calculated. Thus the history data file can have different time when the PC time and base station time is not same. In order to make the time scale correct, remember to set the PC time and base station time same, and further to this, no weather data is allowed to be missed or over-written. If history weather memory on the base station is cleared by manual setting, then the history weather data since last uploading is lost permanently.

Before memory is used up(memory icon on LCD display showing 100% full), remember to upload weather history data to PC periodically.

If there is a reset happened for the rain fall on the base station, then there will be rain fall value discrepancy between PC and base station.

Legal Notes

- We reserve the right to delete or change any image whether or not purposely uploaded onto the server by a user of the WEA22 and the EasyWeather software products.
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