Professional Weather Center
Model: WMR200 / WMR200A

USER MANUAL

CONTENTS

EN

INTRODUCTION

Thank you for selecting the Oregon Scientific™ Professional Weather Center (WMR200 / WMR200A).

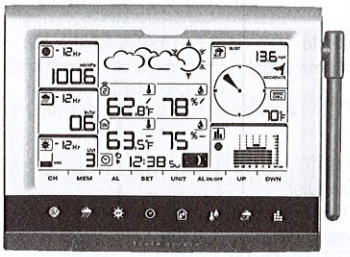
The base station is compatible with other sensors. To purchase additional sensors, please contact your local retailer.

Sensors with this logo 3.0 are compatible with this unit.

NOTE Please keep this manual handy as you use your new product. It contains practical step-by-step instructions, as well as technical specifications and warnings you should know about.

PACKAGING CONTENTS

BASE STATION

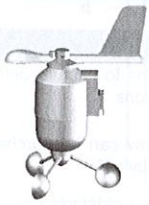


1 x 6V Adapter

1 x USB Cable

4 x AA UM-3 1.5V batteries

WIND SENSOR / TEMPERATURE & HUMIDITY SENSOR



1 x Wind Sensor (1 x Wind Vane Above and 1 x Anemometer Below)

1 x Aluminum-pole

2 x AA UM-3 1.5V batteries

1 x Temperature / Humidity Sensor casing

1 x Temperature / Humidity Sensor

2 x AAA UM-4 1.5V batteries

1 x Sensor Connector

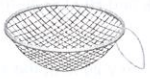
SOLAR PANEL

1 x Solar panel

1 x Solar panel connector

RAIN GAUGE

1 x Rain Collector



1 x Filter

2 x UM-3 / AA

4 x Screws (Type C)

6 x Washers

ASSEMBLY PARTS

 1x Vertical Attachment Bracket	 1 x Cone-Shaped End	 1 x Horizontal Attachment Bracket
1 x Bottom Pole	1 x Mid Pole	1x Top Pole
 2 x Round U- bolts	 2 x Rectangular Base Legs	 3 x Eye pins
 1 x Versatile Base (Wall or Ground Fixable)	 4 x screws (Type A)	

ACCESSORIES - SENSORS

This product can work with up to 10 sensors at any one time to capture outdoor temperature, relative humidity or UV readings in various locations.

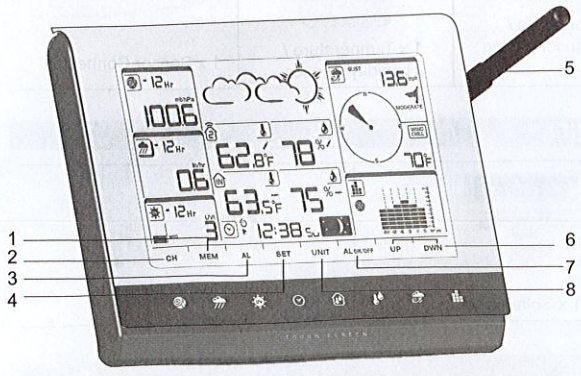
Optional wireless remote sensors such as those listed below can be purchased separately. For more information, please contact your local retailer.*

- Thermo-hygro THGR800 (3-Ch)
- Thermo-hygro THGR810 (10-Ch)
- UV UVN800

* Features and accessories will not be available in all countries.

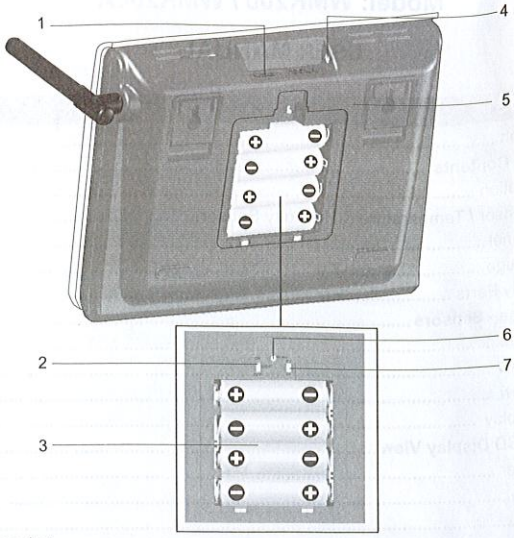
OVERVIEW

FRONT VIEW



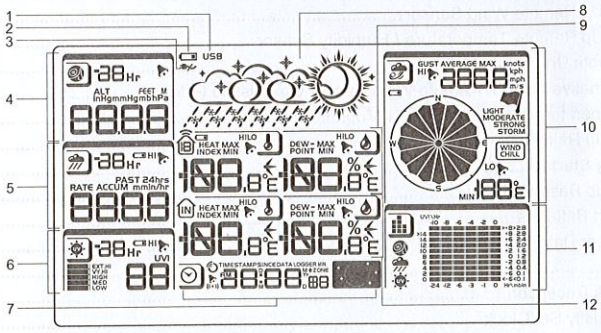
1. **MEM**: View current, maximum and minimum readings
2. **CH**: Toggle between 10 different channels
3. **AL**: Set and view status of Clock and HI / LO alarms
4. **SET**: Enter setting modes
5. Antenna
6. **UP / DWN**: Increase / decrease the values of the selected readings
7. **AL ON/OFF**: Turn alarms on and off
8. **UNIT**: Change display units

BACK VIEW



1. USB socket
2. Backlight (continuous) On/Off
3. Battery compartment
4. AC / DC socket
5. Wall mount holes / Adjustable table stand
6. **RESET**: Reset unit to default settings
7. **EU/UK** slide switch (WMR200 only)

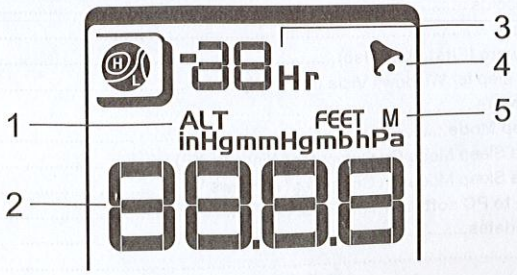
LCD DISPLAY



1. Indicates a successful USB connection
2. Indicates low battery
3. Indicates no main power supply
4. Barometer area
5. Rainfall area
6. UV area
7. Clock / alarm / moon phase area
8. Weather forecast area
9. Outdoor temperature and humidity area
10. Wind area
11. Bar chart area
12. Indoor temperature / humidity area

DETAILED LCD DISPLAY VIEW

BAROMETER



1. Altitude indicator
2. Altitude / pressure reading
3. 0 (current) to – 24 hours barometer record
4. Indicates pressure alarm is ON
5. User selectable altitude / pressure measurement unit

ASSEMBLY PARTS

 1x Vertical Attachment Bracket	1 x Cone-Shaped End	 1 x Horizontal Attachment Bracket
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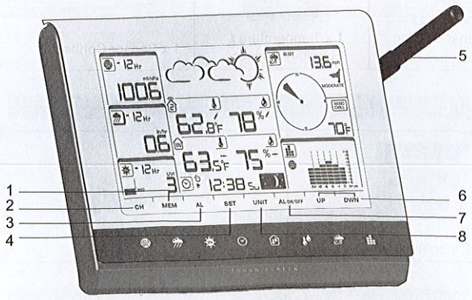
FRONT VIEW



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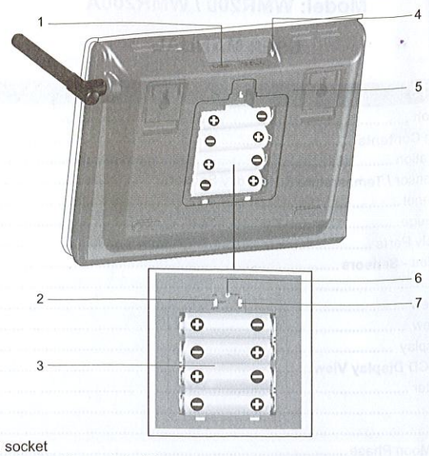

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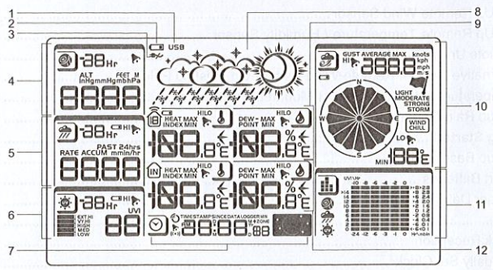

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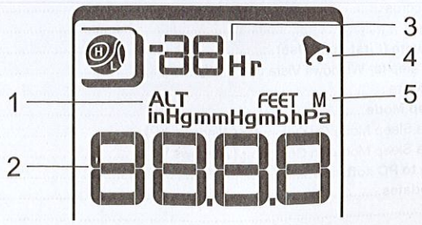
10. Wind area
11. Bar chart area
12. Indoor temperature / humidity area

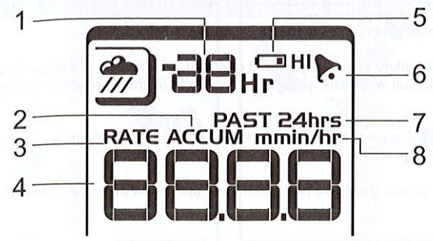
DETAILED LCD DISPLAY VIEW

BAROMETER



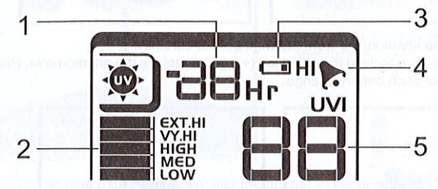
1. Altitude indicator
2. Altitude / pressure reading
3. 0 (current) to – 24 hours barometer record
4. Indicates pressure alarm is ON
5. User selectable altitude / pressure measurement unit

RAINFALL



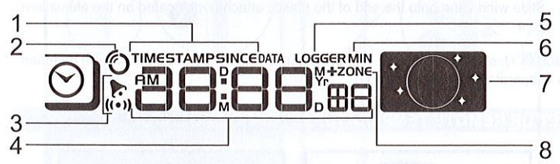
1. 0 (current) to – 24 hours rainfall record /
2. Accumulated total rainfall (refer to SINCE date stamp in clock area for further details)
3. Rain rate indicator
4. Rain reading
5. Sensor batteries low
6. Indicates high rainfall alarm is ON
7. Shows accumulated rainfall of past 24 hours
8. Rainfall unit

UV



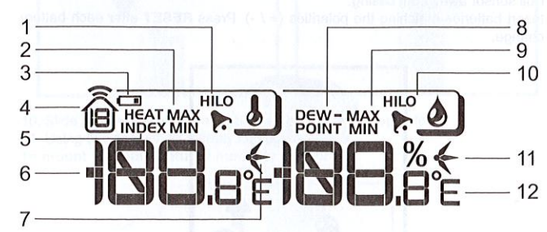
1. 0 (current) to – 10 hours UV record
2. UV level index
3. Sensor batteries low
4. Indicates high UV alarm is ON
5. UVI reading

CLOCK / MOON PHASE



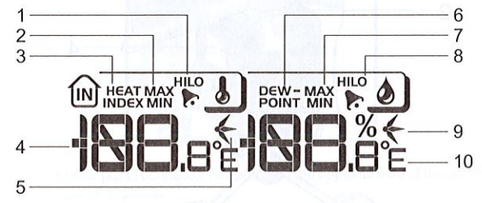
1. Displays time of records, time stamp for Indoor / Outdoor temperature / humidity sensors and initial date set (Since date) for rainfall.
2. Radio controlled clock
3. indicates daily alarm is ON
4. Displays Clock with seconds, Clock with day, Calendar, Data logger
5. Data Logger displaying remaining number of days memory will allow for data collection
6. Set Data Logging frequency (refer to Memory section)
7. Moon phase display
8. Offset time zone

OUTDOOR TEMPERATURE / HUMIDITY



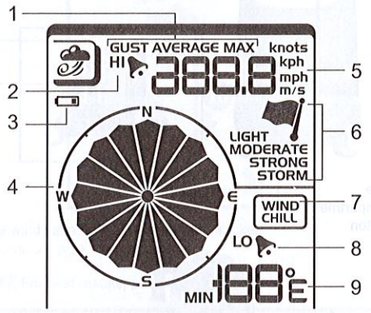
1. Indicates HI / LO outdoor temperature alarms are ON
2. MAX / MIN temperatures (refer to date stamp on clock area for more details)
3. Sensor batteries low
4. Displays from 1-10 outdoor sensors
5. Heat index
6. Outdoor Temperature readings
7. Temperature trend indicators
8. Dew point temperature
9. MAX / MIN humidity
10. Indicates HI / LO outdoor humidity alarms are ON
11. Humidity trend indicators
12. User selectable temperature units

INDOOR TEMPERATURE AND HUMIDITY



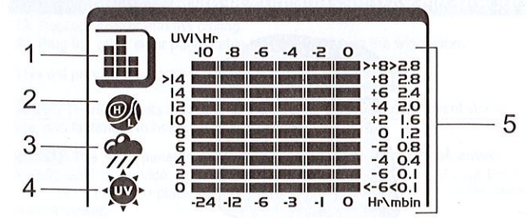
1. Indicates HI / LO temperature alarms are ON
2. MAX / MIN temperatures
3. Heat index
4. Indoor temperature reading
5. Temperature trend indicators
6. Dew point temperature
7. MAX / MIN indoor humidity
8. Indicates HI / LO humidity alarms are ON
9. Humidity trend indicators
10. User selectable temperature units

WIND SPEED / DIRECTION / WIND CHILL



1. User selectable measured winds: Gust / Average; Displays MAX wind speeds recorded
2. Indicates HI alarm is ON
3. Sensor batteries low
4. Wind direction indicator
5. User selectable wind speed units
6. Wind speed level indicator
7. Wind chill temperature display
8. Indicates LO windchill alarm is ON
9. Windchill reading

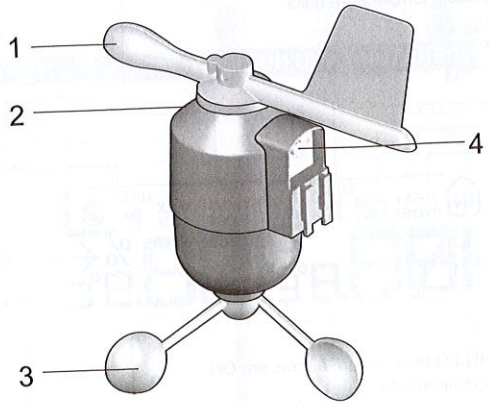
BAR CHART



1. Bar chart icon area
2. Barometer bar chart display
3. Rainfall bar chart display
4. UV bar chart display
5. Measurement axis

EN

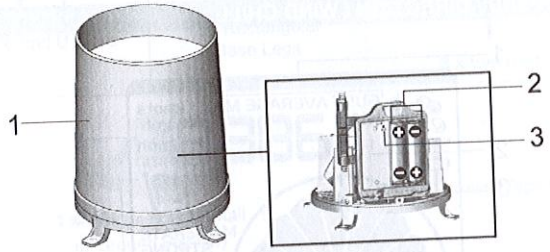
WIND SENSOR



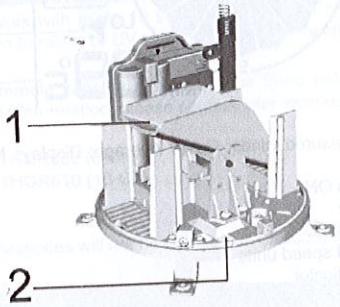
1. Wind Direction
2. Wind vane casing
3. Anemometer
4. Solar power socket

RAIN GAUGE

Base and funnel:

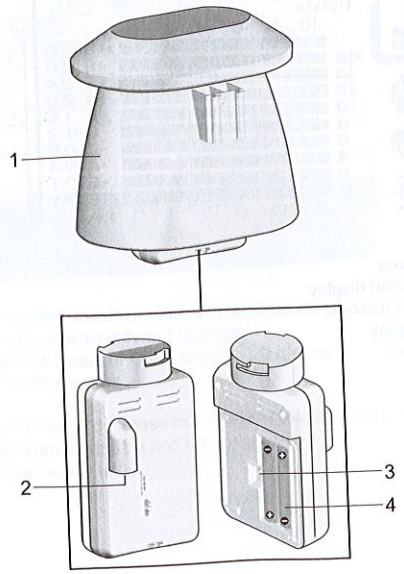


1. Rain Gauge
2. Battery compartment
3. **RESET** button



1. Funnel
2. Indicator

OUTDOOR TEMPERATURE / HUMIDITY SENSOR



1. Temperature / humidity sensor casing
2. Solar power socket
3. **RESET** button
4. Battery compartment

GETTING STARTED

SET UP REMOTE WIND SENSOR

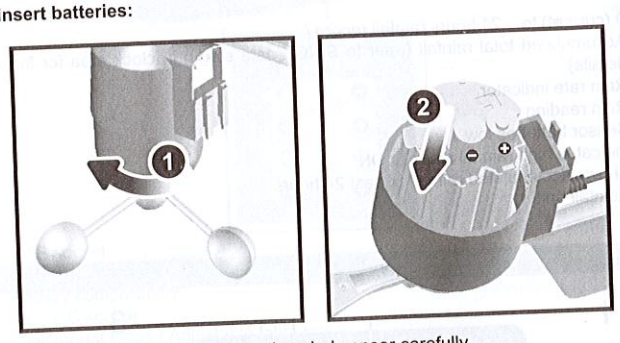
The wind sensor takes wind speed and direction readings.

The sensor is battery and solar powered operated. It is capable of transmitting data to the base station wirelessly within an approximate operating range of 100 meters (328 feet).

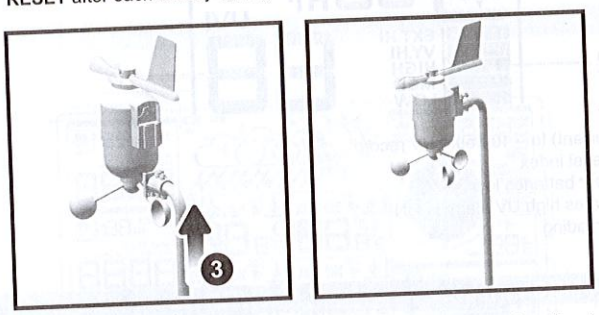
IMPORTANT Ensure that the wind sensor is pointing North to enable it to record accurate readings.

NOTE The sensor should be positioned in an open area away from trees or other obstructions.

To insert batteries:



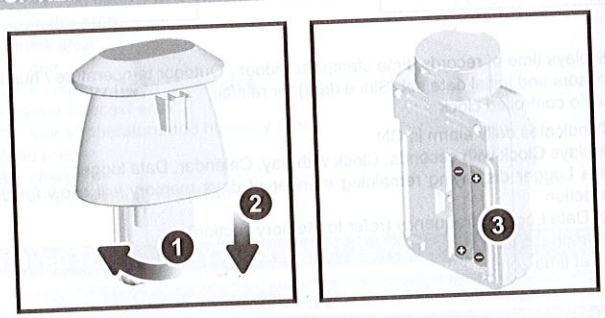
1. Unscrew the anemometer from the wind sensor carefully.
2. Insert batteries matching the polarities (+ / -) and replace the anemometer. Press **RESET** after each battery change.



3. Slide wind vane onto the end of the plastic attachment located on the aluminium pole.

NOTE Use alkaline batteries for longer usage and consumer grade lithium batteries in temperatures below freezing.

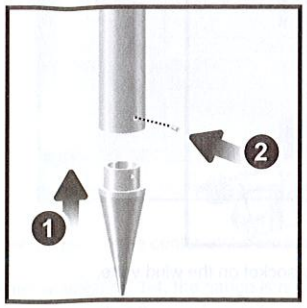
SET UP REMOTE TEMPERATURE / HUMIDITY SENSOR

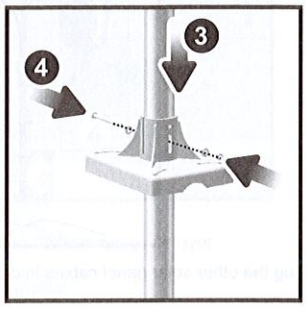


1. Holding sensor, twist and click to the left.
2. Pull sensor away from casing.
3. Insert batteries matching the polarities (+ / -). Press **RESET** after each battery change.

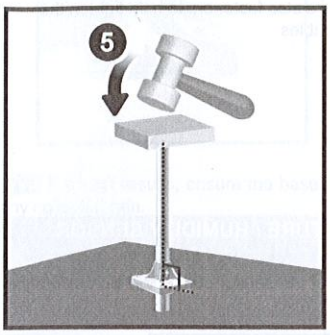
4. Insert sensor into the casing, twist and click to the right to secure.
5. Slide temperature and humidity sensor onto the smaller end of the sensor connect

REMOTE UNIT ASSEMBLY





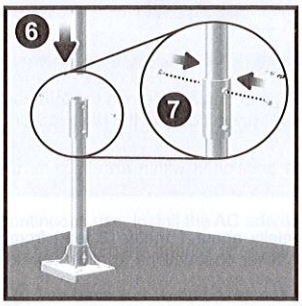
1. Insert the cone-shaped end into the pole.
2. Using 2 screws, fix it firmly into place.
3. Insert the versatile plastic base into the pole. Align the holes of the pole with the holes of the plastic base.
4. Secure the plastic base by inserting the screw and screwing it tightly into the holes of the plastic base and pole.

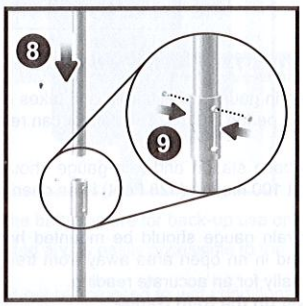


IMPORTANT The sensor should be positioned in an open area away from trees or other obstructions.

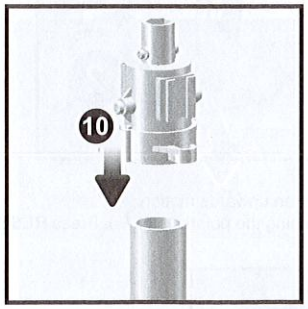
5. Hammer pole (cone end down) into the ground at the desired spot until versatile plastic base is level with the ground.

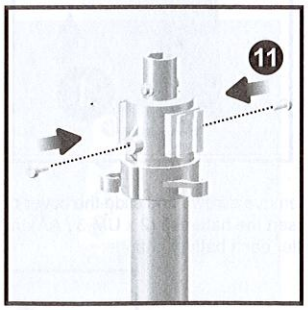
TIP Place a block of wood between the pole and the hammer to prevent damage to the pole.





6. Assemble middle pole on top of the bottom one.
7. Using two screws, fix it firmly into place.
8. Assemble top pole on top of the middle one.
9. Using two screws, fix it firmly into place.

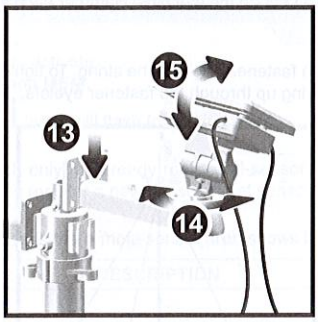




10. Slide the vertical attachment bracket on top of the top pole.
11. Using two screws, fix it firmly into place.

To mount the temperature / humidity sensor:

12. Slide outdoor sensor onto vertical attachment bracket.

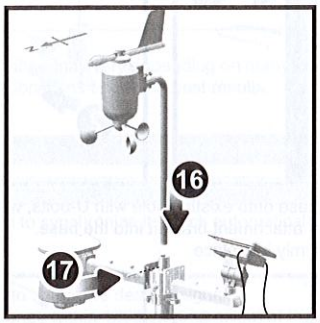


13. Slide the solar panel connector into place on the opposite side of the bracket. Slot the solar panel in place.
14. Adjust the solar panel. Once facing desired direction, use screw to fix in place.
15. Loosen the wing bolt and adjust the angle. Tighten wing bolt to secure solar panel at desired angle.

NOTE For best results, direct solar panel as follows:

Solar panel facing:	if you reside in the:
North	Southern Hemisphere
South	Northern Hemisphere

To mount the wind sensor:



16. Insert the wind vane into the attachment bracket.
17. Screw aluminum pole firmly into place.

IMPORTANT For best results, point the wind vane North.

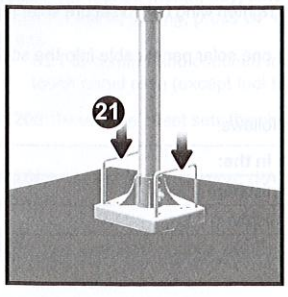
18. Remove outdoor sensor from casing. Plug one solar panel cable into the socket.
19. Replace sensor into the casing.
20. Plug the other solar panel cable into the socket on the wind vane.

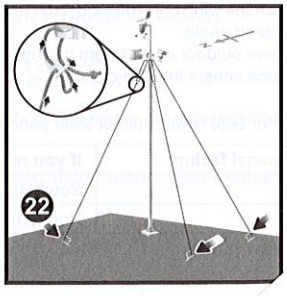
This will provide the sensors with an additional power supply.

NOTE There are slots to insert the solar power cables for convenient storage. There are also fasteners to help tighten the cables.

NOTE The solar panel is an energy saving feature, which is an environmentally friendly way to provide additional power to the sensors and prolongs battery life. However, it cannot replace battery power entirely. Sensors can operate entirely on battery power.

Securing the assembled remote unit:

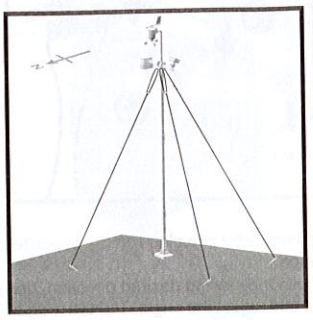




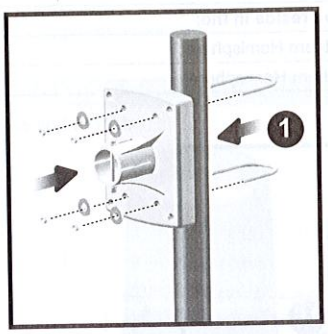
21. Insert the 2 rectangular base legs through the holes of the vers hammer down.

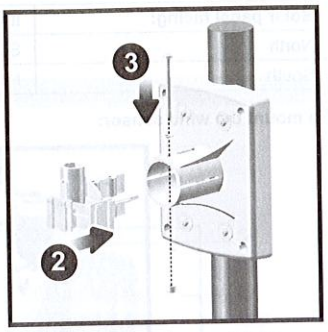
22. Using the string, tie a knot on the eye pins. Hammer each eye pin into the ground at a 90° angle.

IMPORTANT Using the fasteners, tighten the string. To tighten, pull fastener down. To loosen, thread the string up through the fastener eyelets.

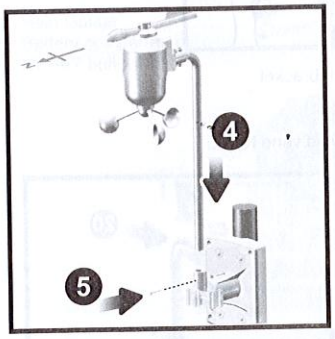


ALTERNATIVE SET UP: REMOTE WIND SENSOR ON EXISTING POLE



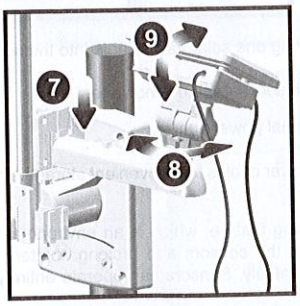


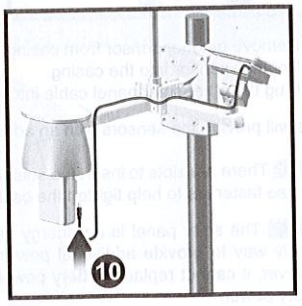
1. Secure the plastic base onto existing pole with U-bolts, washers and bolts.
2. Insert the horizontal attachment bracket into the base.
3. Using a screw, fix firmly into place.



4. Insert wind sensor into the top of the bracket.
5. Using screws, fix aluminum pole firmly into place.
6. Slide outdoor sensor onto bracket.

IMPORTANT For best results, point the wind vane North.

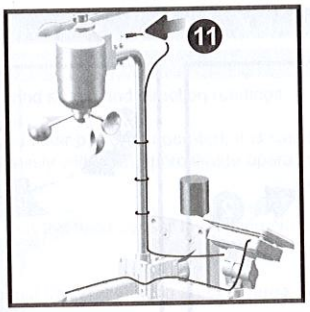




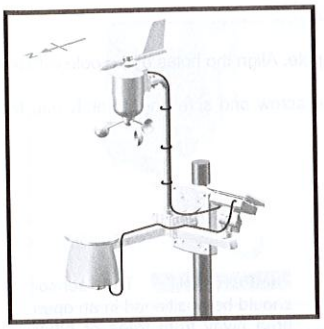
7. Slide the solar panel connector into place on the other side of the bracket. Slot the solar panel in place.
8. Adjust the solar panel. Once facing desired direction, use screw to fix in place.
9. Loosen the wing bolt and adjust the angle. Tighten wing bolt to secure solar panel at desired angle.
10. Remove outdoor sensor from casing. Plug one solar panel cable into the socket. Replace sensor into the casing.

NOTE For best results, direct solar panel as follows:

Solar panel facing:	If you reside in the:
North	Southern Hemisphere
South	Northern Hemisphere



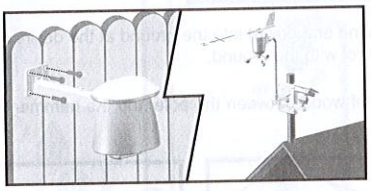
11. Plug the other solar panel cables into the socket on the wind vane.



NOTE There are slots to insert the solar power cable for convenient storage. There are also fasteners to help tighten the cables.

ALTERNATIVE SET UP: TEMPERATURE / HUMIDITY SENSOR MOUNTED SEPARATELY

1. Insert 4 type A screws into the holes of the sensor connector. Screw firmly int place, i.e., fence.



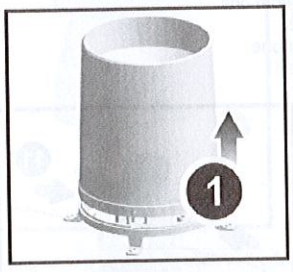
SET UP RAIN GAUGE

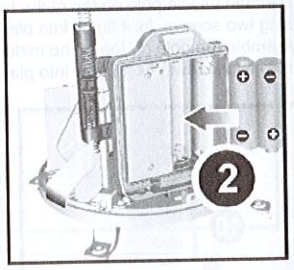
The rain gauge collects rain and takes readings of rainfall rate and the total rainfa over a period of time. The sensor can remotely transmit data to the base station.

The base station and rain gauge should be positioned within an effective rang about 100 meters (328 Feet) in an open area.

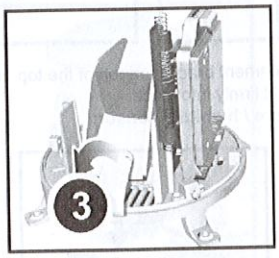
The rain gauge should be mounted horizontally about 1 meter (3 feet) from th ground in an open area away from trees or other obstructions to allow rain to fa naturally for an accurate reading.

To set up the Rain Gauge:





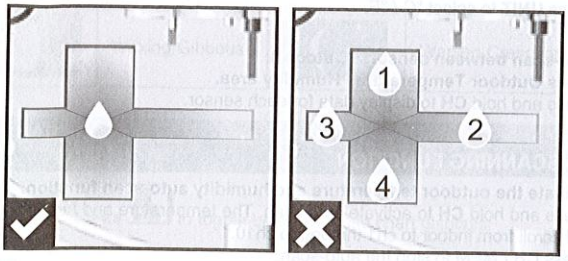
1. Remove screws and slide the cover off in an upwards motion.
2. Insert the batteries (2 x UM-3 / AA), matching the polarities (+ / -). Press **RES** after each battery change.



3. Remove the fibre tape.

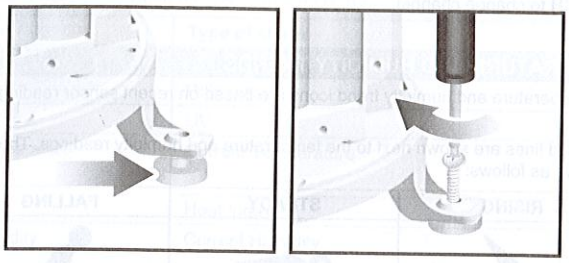
To ensure a level plane:

Put a few drops of water on the cross at the base of the funnel to check the horizo level.



Water will pool to the center of the cross when the rain gauge is level.

If water remains on 1-4, the gauge is not horizontal.
If necessary, adjust the level using the screw.

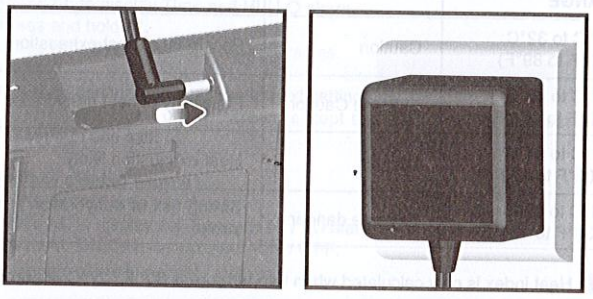


NOTE For best results, ensure the base is horizontal to allow maximum drainage of any collected rain.

GETTING STARTED

SET UP BASE STATION

NOTE Install batteries matching the polarities (+ / -) in the remote sensor before installing the base station.

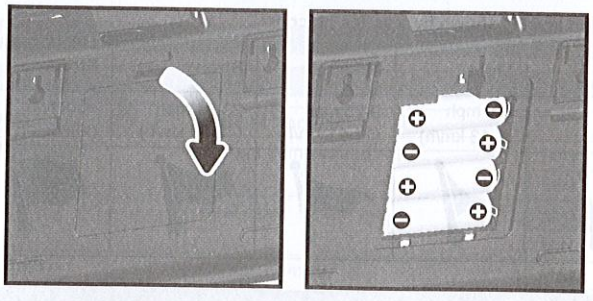


For continuous use, install the AC adapter. The batteries are for back-up use only.

NOTE Make sure the adapter is not obstructed and is easily accessible to the unit.

NOTE The base station and adapter should not be exposed to wet conditions. No objects filled with liquid, such as vases, should be placed on the base station and adapter.

INSERT BATTERIES



1. Remove the battery compartment.
2. Insert the batteries, matching the polarities (+ / -).
3. Press **RESET** after each battery change.

NOTE Do not use rechargeable batteries. It is recommended that you use alkaline batteries with this product for longer performance.

NOTE Batteries should not be exposed to excessive heat such as sunshine or fire.

LOCATION	MEANING
Weather forecast area	Base station batteries low
Rainfall / UV / Wind / Outdoor temperature / humidity area	Sensor batteries low

SENSOR DATA TRANSMISSION

To search for a sensor:

1. Select desired area to activate.
2. Press and hold **CH** and **MEM**.
3. icons will flash for 5 minutes.

NOTE Unit will search only for already registered sensors or new sensors reset within last 30 minutes. To register a new sensor, reset sensor prior to search.

The sensor reception icon in the remote sensor area shows the status:

ICON	DESCRIPTION
	Base station is searching for sensor(s)
	A channel has been found
	Sensor 1 data received
	The sensor cannot be found.

TIP The transmission range may vary depending on many factors. You may need to experiment with various locations to get the best results.

CLOCK

CLOCK RECEPTION

This product is designed to synchronize its clock automatically with a clock signal.

WMR200:

Slide switch to **EU / UK** to select the desired signal.

- EU: DCF-77 signal: within 1500km (932 miles) of Frankfurt, Germany.
- UK: MSF-60 signal: within 1500km (932 miles) of Anthorn, England.

WMR200A:

WWVB-60 signal: within 3200km (2000 miles) of Fort Collins Colorado. Manually set clock to select time zone (Pacific, Mountain, Central or Eastern).

indicates the status of the clock reception signal.

ICON	MEANING
	Time is synchronized Receiving signal is strong
	Time is not synchronized Receiving signal is weak

NOTE Reception takes 2-10 minutes. If the signal is weak, it can take up to 24 hours to get a valid signal.

To enable / disable signal reception:

Press and hold **clock area** to enable / disable signal reception. A beep will sound to confirm action.

NOTE For best reception, the base station should be placed on a flat, non-metallic surface near a window in an upper floor of your home. The antenna should be placed away from electrical appliances and not be moved around when searching for a signal.

MANUALLY SET CLOCK

1. Press **clock area** to activate.
2. Press **SET** to toggle between time zone offset, 12/24 hr format, hour, minute, year, day / month, month, day, time zone.
3. Once in desired setting, press **UP** or **DWN** to change the settings.
4. Press:
   - **SET** to confirm and continue to next setting OR
   - touch panel area (except tool bar) to confirm and exit.

WMR200: Time zone offset sets the clock +/- 23 hours from the received clock signal time.

WMR200A: Select the time zone: (PA) Pacific, (EA) Eastern, (CE) Central or (MO) Mountain.

NOTE The language options are English (E), German (D), French (F), Italian (I), and Spanish (S).

To select clock display mode:

Press **clock area** repeatedly to toggle between:
- Clock with seconds
- Clock with weekday
- Date with year
- Data logger (please refer to Memory / Data logger section)

PRESSURE

To toggle barometer unit:

1. Press **barometer area** to toggle between Altitude / current barometer.
2. Press **UNIT** to select FEET / M or inHg / mmHg / mb / hPA.

SET ALTITUDE

Set the altitude to reflect distance from sea level at your position.

1. Press **barometer area** to display **ALT.**
2. Press **SET.**
3. Press **UP / DWN** to set the altitude in 10 m (33 ft) increments from -100 m (-328 ft) to 2500 m (8202 ft).
4. Press **SET** or touch panel area (except tool bar / forecast area) to confirm.

RAINFALL

To select rainfall display mode:

Press **rain area** to toggle between:
- Rain rate
- Hourly Rainfall
- Accumulated rainfall
- Rainfall recorded in the past 24 hours

Press **UNIT** to select mm / in.

ACCUMULATED RAINFALL

To display SINCE DATE:

1. Press **rain area** repeatedly until Accumulated Rainfall is displayed. (**Clock area** will display the start date / time of rainfall recording).

To reset SINCE DATE:

Press and hold **MEM** to set current time as start of accumulated rainfall records.

UV

The UV index levels are as follows:

UV INDEX	DANGER LEVEL	ICON
0-2	Low	LOW
3-5	Moderate	MED
6-7	High	HI
8-10	Very high	V.HI
11 and above	Extremely high	EX.HI

WEATHER FORECAST

This product forecasts the next 12 to 24 hours of weather within a 30-50 km (19-31 mile) radius (US- with a 75% accuracy).

	Sunny
	Clear night
	Partly cloudy
	Partly cloudy at night
	Cloudy
	Rainy
	Snowy

TEMPERATURE AND HUMIDITY

To toggle temperature unit:

1. Press **Indoor** / **Outdoor** **Temperature / Humidity area.**
2. Press **UNIT** to select °C / °F.

To auto-scan between sensors (Outdoor):

1. Press **Outdoor Temperature / Humidity area.**
2. Press and hold **CH** to display data for each sensor.

AUTO SCANNING FUNCTION

To activate the outdoor temperature and humidity auto-scan function:

1. Press and hold **CH** to activate auto-scan. The temperature and humidity displ will scroll from indoor to ch1 through to ch10.
2. Press **CH / MEM** to stop the auto-scan.

NOTE Channel 1 is used for the outdoor temperature and humidity sensor provided this package. Additional temperature and humidity sensors can use other channel

To change channel:

Press **CH** to change channel.

TEMPERATURE AND HUMIDITY TRENDS

The temperature and humidity trend icons are based on recent sensor readings.

The trend lines are shown next to the temperature and humidity readings. The tre is shown as follows:

RISING	STEADY	FALLING

HEAT INDEX

Press **Indoor** / **Outdoor** **Temperature / Humidity area** to display the ac temperature felt:

TEMPERATURE RANGE	WARNING	MEANING
27°C to 32°C (80°F to 89°F)	Caution	Possibility of heat exhaustion
32°C to 40°C (90°F to 104°F)	Extreme Caution	Possibility of heat dehydration
41°C to 54°C (105°F to 129°F)	Danger	Heat exhaustion likely
54°C to 92°C (130°F to 151°F)	Extreme danger	Strong risk of dehydration / s stroke

NOTE Heat index is only calculated when temperature is 80° F / 27°C or abov

WIND

To select wind display mode:

Press **wind area** to toggle between:
- Gust
- Average

Press **UNIT** to select unit: knots / kph / mph / m/s.

The wind level is shown by a series of icons:

Lost sensor	Light	Moderate	Strong	Storm
	0-8 mph (3-13 km/h)	9-25 mph (14-41 km/h)	26-54 mph (42-87 km/h)	>55 mph (>88 km/

MOON PHASE

1. Press **clock area** to activate.
2. Press **SET** repeatedly to display Year / Calendar date.
3. Press **UP / DWN** to view moon phase for specific dates.

	New Moon		Full Moon
	Waxing Crescent		Waning Gibbous
	First quarter		Last quarter

	Waxing Gibbous		Waning Crescent

BAR CHART

To select chart display mode:

Press **bar chart area**  to toggle between these chart displays:

- Barometer
- Rain
- UV

ALARM

Weather alarms are used to alert you of certain weather conditions. Once activated, the alarm will turn off when a certain criterion is met.

Area	Type of alarm	
Barometer	Barometer	HI
Rain	Rain rate	HI
UV	UV	HI
Temperature	Current Temperature	HI
		LO
	Heat Index	HI
Humidity	Current Humidity	HI
		LO
	Dew Point	HI
		LO
Clock	Daily Alarm	
Wind	Gust Wind Speed	HI
	Low Wind Chill	LO

To set the alarm:

1. Press desired area to activate.
2. Press **AL** to display Time and HI / LO alarm.
3. Press and hold **AL**
4. Press **UP / DWN** to set the desired values.
5. Press
   - **AL** to confirm and continue to next setting OR
   - touch anywhere on the screen (except tool bar / weather forecast area) to confirm and exit.

To enable / disable alarms:

1. Press desired area to activate.
2. Press **AL** to display set Time and HI / LO alarm.
3. Press **AL ON/OFF** to turn alarm ON / OFF.

"- -" indicates alarm is not set / disabled.

NOTE Clock alarm sound is different from weather alarms to allow for easy differentiation by user.

To silence any alarm: Press anywhere on the screen.

NOTE will continue flashing, despite silenced alarm, for at least 2 minutes or until condition ceases.

NOTE When alarm is on, the channel of triggered alarm will be displayed.

MEMORY

MAX / MIN RECORDS

Area	Type of Memory	
Temperature	Current Temperature	MAX
		MIN
	Heat Index	MAX
		MIN
Humidity	Current Humidity	MAX
		MIN
	Dew Point	MAX
		MIN
Wind	Gust Wind Speed	MAX
	Wind Chill	MIN

To view MAX / MIN records:

1. Press desired area to activate.
2. Press **MEM** to toggle between MIN / MAX recorded values.

To clear individual area records:

1. Press desired area to activate.
2. Press and hold **MEM**.
3. Delete process is complete when display shows current reading.

HOURLY RECORDS

Display	Hourly readings of up to
Barometer	24 hours back
Hourly Rainfall	24 hours back
UV	10 hours back

To view hourly records:

1. Press desired area to activate.
2. Press **UP / DWN** to view current (0) / hourly reading.

When MAX / MIN reading is displayed, the corresponding timestamp will be displayed in the **clock area**  .

DATA LOGGER

To set DATA LOGGER:

1. Press **clock area**  until DATA LOGGER mode is displayed.
2. Press **SET**.
3. Press **UP / DWN** to select frequency of data recording (1 / 2 / 5 / 10 /15).
4. Press **SET**.
5. The number of days memory will allow for records will be displayed.

Frequency in minutes	No. of days available for data logging with Memory available*
1	19
2	38
5	97
10	194
15	291

** based only on all provided sensors in this package being used, and after all memory has been cleared.*

To view remaining days for records:

Press **clock area** until DATA LOGGER mode is displayed.

NOTE When DATA LOGGER is full, i.e., no more records can be stored on unit, '**DATA LOGGER**' and '**O Days**' will flash.

SET UP SOFTWARE (FIRST TIME USE)

The weather station is capable of connecting to a PC computer using the USB connection. The software can read the latest weather data collected from the base station.

PC system requirements

The minimum system requirements for use of the software is:

- Operating system: Microsoft Windows XP SP2 or Vista
- Processor: Pentium 4 or above
- RAM: Min. 512 MB
- Hard disk free space: Min. 512 MB
- Screen Display Area:1024 x 768 pixels (recommended)

ADDITIONAL STEP FOR WINDOWS VISTA USERS ONLY

** For Windows XP users, please go straight to **Install Software** section.*

IMPORTANT You must follow the below instructions **before** installing software.

Determine status of UAC (User Account Control):

1. Click on  Start.
2. In context menu, scroll to **Settings** and select **Control Panel**.
3. Double click the **User Account (and Family Safety)**.
4. Double click on **Change your Windows password.** (If you chose the **Control Panel classic** link from left hand column in step 2, skip this step).
5. In **Turn User Account On or Off** screen, identify if UAC option is enabled / on (ticked) or disabled / off (un-ticked).

NOTE **We highly recommend disabling this option for seamless operation of the Weather OS software.**

To Turn User Account off:

6. Deselect the UAC option by un-ticking the box (click once).
7. Click **OK**.
8. In **You must restart your computer** dialogue box, click **Restart** now.

INSTALL SOFTWARE

1. Insert provided CD into disk drive.
2. Run CD software.
3. **Setup Wizard** dialogue box will appear and guide you through the installation process.

Date : 19/05/2016

Utilisateurs : Toucher Florent, HOUFAF Sabrina, KACHOUR FARAH

Récupérer les données de la station météo

Sur le bureau, ouvrir le dossier Logiciel météo. Dans ce dossier, ouvrir l'application XNet-Meteo. L'application ouverte, brancher la station météo à l'ordinateur avec le câble USB. Les données sur la station sont alors directement chargées sur le PC.

⚠ Les données ne sont pas enregistrées sur la station, donc durant l'acquisition de celles-ci sur le PC, ne pas toucher au câble. Une fois l'acquisition terminée, on peut débrancher sans craintes la station.

Deux fichiers XNet-Meteo sont alors créés, dont un fichier texte qui nous intéresse. ~~Il faut sauvegarder~~ Ouvrir ce fichier, et enregistrer le dans le dossier Données_Meteo_Incas_2016, en le renommant, ~~en ayant créé au préalable un dossier du jour correspondant~~ :

XNet-Meteo_jour_05_2016_Initiales_n° acquisition
(utilisateurs)

A chaque nouvelle acquisition, le fichier texte XNet-Meteo est complété au fur et à mesure des nouvelles valeurs. Enregistrer le fichier à chaque acquisition nous permet de récupérer en continu les données, afin de ~~nous assurer~~ d'éviter la perte de ces dernières en cas d'éventuel problème de la station.

NB : Exploiter les données météorologiques

Après le dernier changement de la journée des données, il faut rendre les données exploitables.

Pour cela, il faut ouvrir le fichier excel correspondant à cette acquisition. Il faut sélectionner la première colonne uniquement puis allez dans l'onglet données, ~~Outils~~, cliquez sur convertir.

Une fenêtre s'ouvre.
Cochez la case "délimité" puis "suivant".
Au niveau de la section Séparateur, cochez les cases "tabulations" et "point-virgule" puis cliquez sur "suivant" et "fin"

Maintenant, enregistrez-sous "données météo Toncas 2014" puis nommez le fichier : xNet_Meteo_jour_05_2014.final.

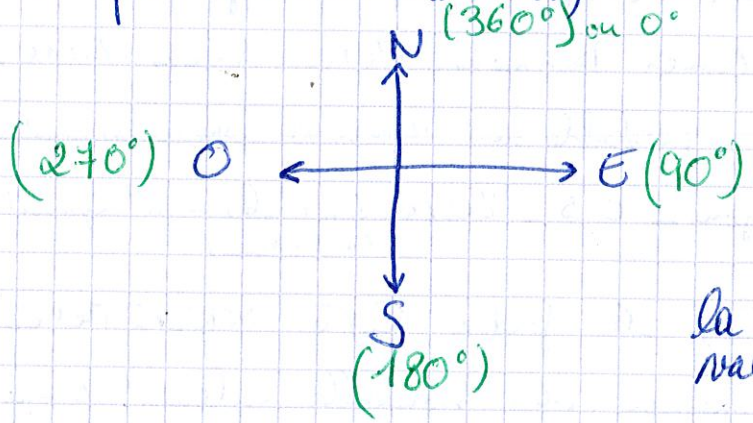
⚠ Vérifiez le type de fichier à enregistrer !

ℹ Il faut veiller à enregistrer sous format excel et non CSV !
Il faut également corriger l'heure en ajoutant +2 h à l'heure affiché pour obtenir l'heure française.

A Tracer ! ~~3~~ choses !

1) L'humidité relative, la température extérieur en fonction du temps.
2) ~~Les précipitations en fonction du temps.~~
3) La vitesse du vent et la direction en fonction du temps.

Il faut avoir en tête ceci :



la direction prend en compte les valeur en (°)

4) ⇒ Il est intéressant de tracer une rose des vents si on a le courage

ℹ Avant de tracer les différents graphes, vérifiez le dernier fichier enregistré, c'est à dire, le fichier Excel comptant toutes les données de la journée. En effet, lorsque vous ouvrez ce fichier, on y trouve des doublons, il faut donc s'assurer de tous les supprimer. On peut alors tracer les graphes.

Important :

1) Il faut noter l'heure, la durée et l'intensité des pluies car la station mesure uniquement les précipitations cumulées sur 24 h.
Donc il est impossible de tracer les précipitations en fonction du temps.

Une fois les courbes tracées l'impression est possible !

Date : 20/05/2014.
Utilisateur : NGUYEN Phung, RENARD DAVID

- Répéter les étapes de récupérer et d'exploiter les données météorologiq

Code (mdp) de l'ordinateur : TPCHIMIE

- Pour fichier excel : attention à l'heure
  remettre en format hh:mm:ss
  A partir de minuit du jour précédent, l'ordinateur ne comprend pas parfaitement le changement de jour → il faut corriger le format au début de valeur erronée erronné.
- La durée de entre les 2 acquisitions

DATE : 21/05/2014

Utilisateur : BOUILLAGUET Fabien

- Pas de donnée sur les précipitations de la nuit
  → les piles sont retirées puis remise et le bouton RESET pressé.
  → une pluie est simulée pour voir si on a une mesure
  ↳ en temps réel : pas de donnée
  ↳ une heure après : pas de donnée

- Sur le fichier Excel : format de l'heure :
  -> sélectionner une cellule
  -> dans format / cellule / nombre aller dans personnaliser et choisir hh:mm:ss puis OK
  -> à la place de 00:00:00 rentrer la bonne heure
  -> faire de même avec la cellule suivante
  -> sélectionner les deux cellules et étendre pour toute la colonne.
  -> il y a des doublons et des trous dans les heures.

M.P. salutations Mathieu AERTS & Mathieu LACHATRE

Le 21/05/ La station météo m'a par mesurée de 9H à 11H. (Heure française).

2