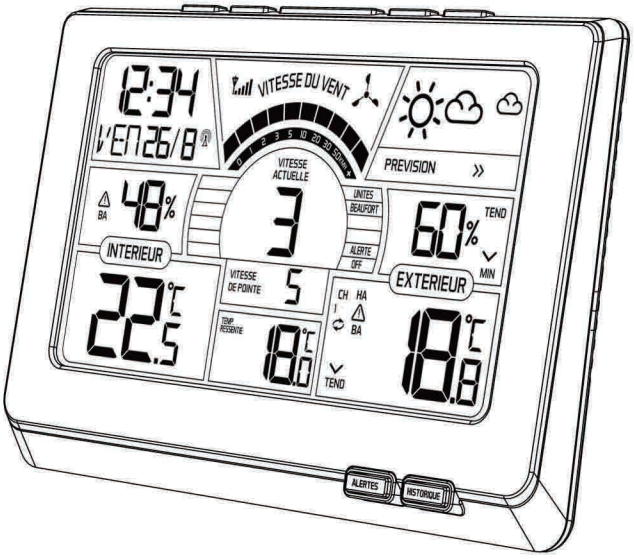
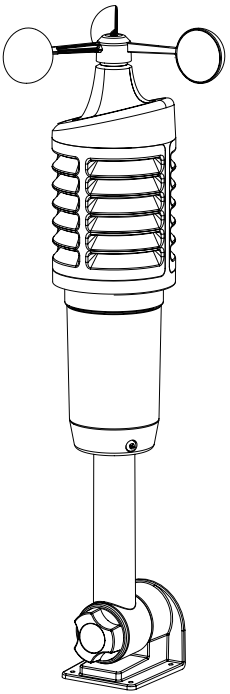
LA CROSSE®
TECHNOLOGY

Model: WS6860
Instructional Manual

# Wind Speed Weather Station



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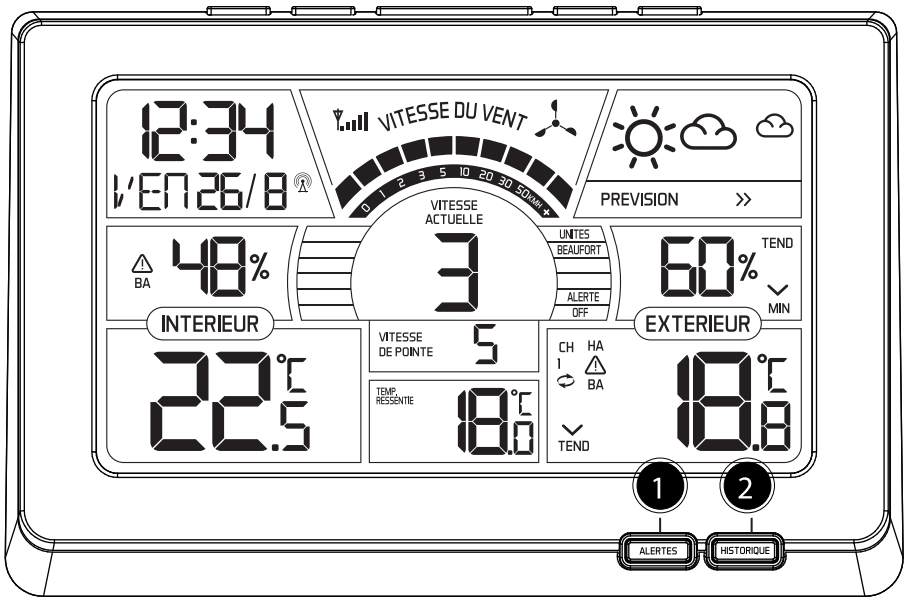
### Front View

**Front Buttons**

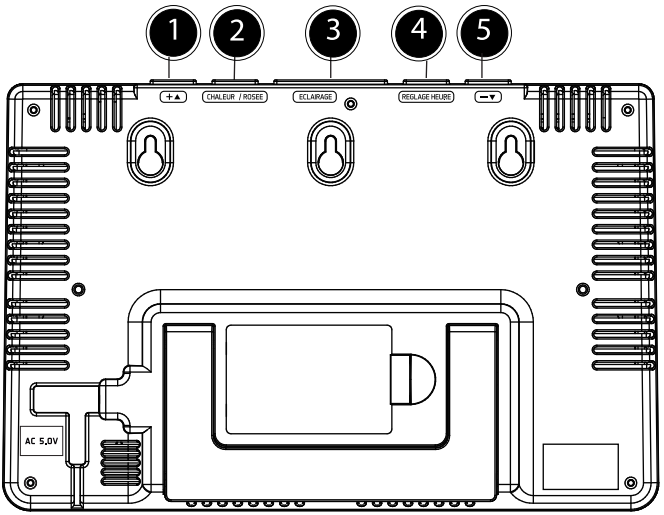
① Alertes
② Historique



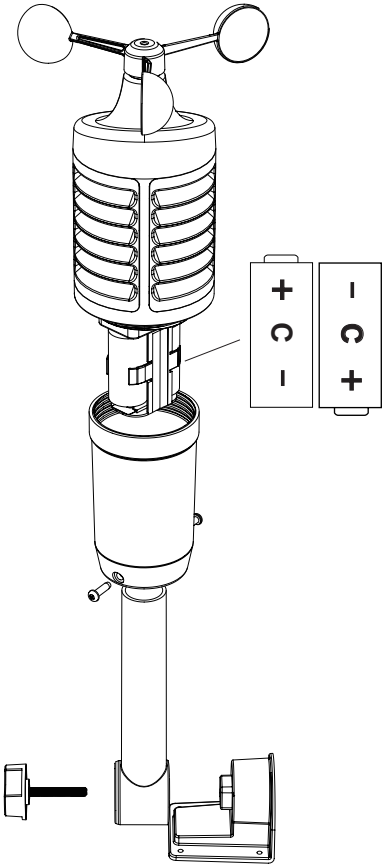

### Back View

**Top Buttons**

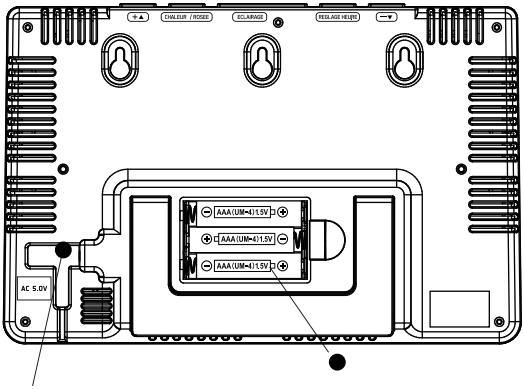
① Up / +
② Heat/Dew - Chaleur/Rosée
③ Light (Eclairage) (HI/LOW-OFF)
④ Time Set – Réglage heure
⑤ Down / -



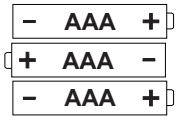
Outdoor Sensor
TX141W



Back View




AC Adapter



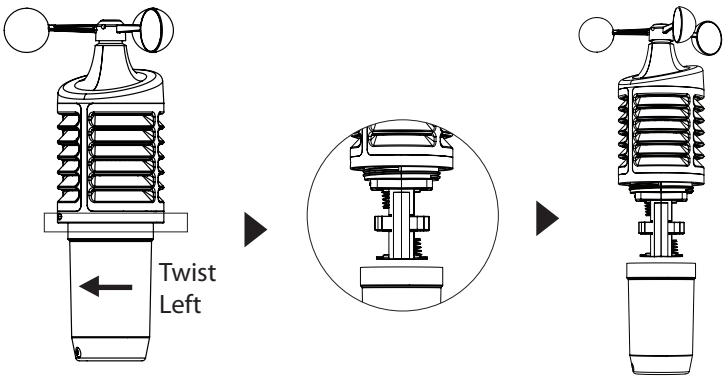

Battery Compartment
3 "AAA" Batteries

Power the Weather Station:

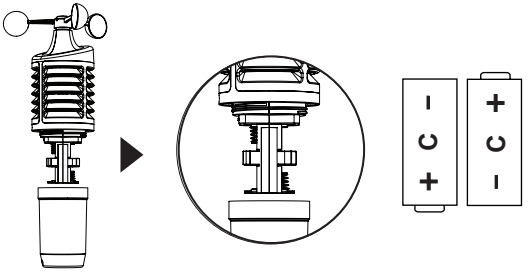
1. Insert AC adapter into the outlet and into the weather station
2. Insert three AAA batteries into the weather station (optional).
3. After 15 minutes, mount the sensor outside (position Wind Sensor).

## Initial Setup and Assembly - TX141W Sensor

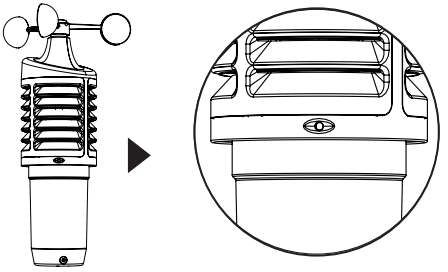
1. Twist battery cover left to remove from sensor.



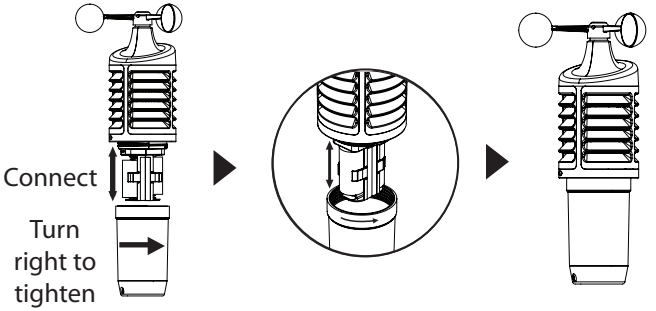
2. Install two "C" batteries according to polarity.



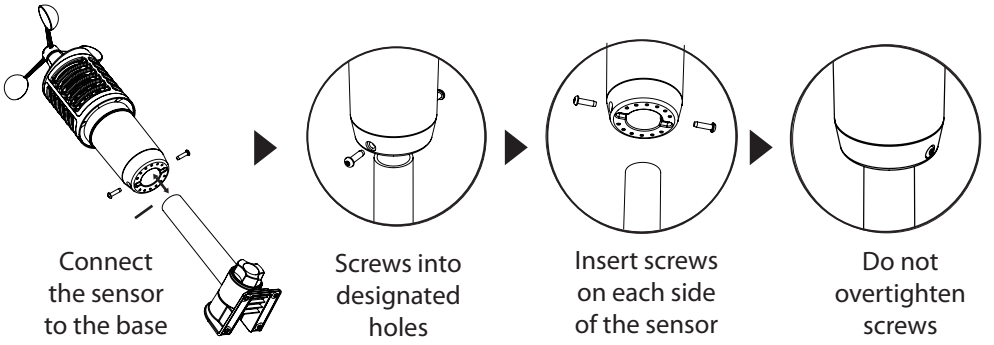

3. The red LED light will flash when transmitting



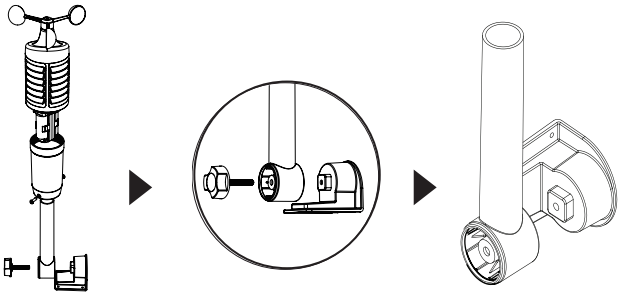
4. Replace the battery cover




5. Insert pole into bottom of sensor and secure with two screws.

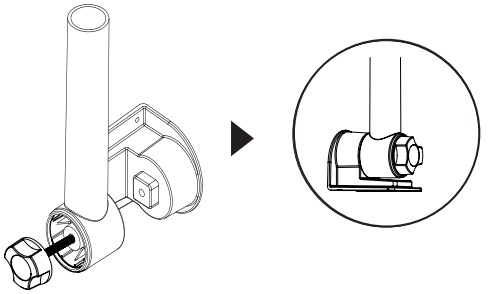


6. Align the square opening on the pole over the square of the mounting bracket.



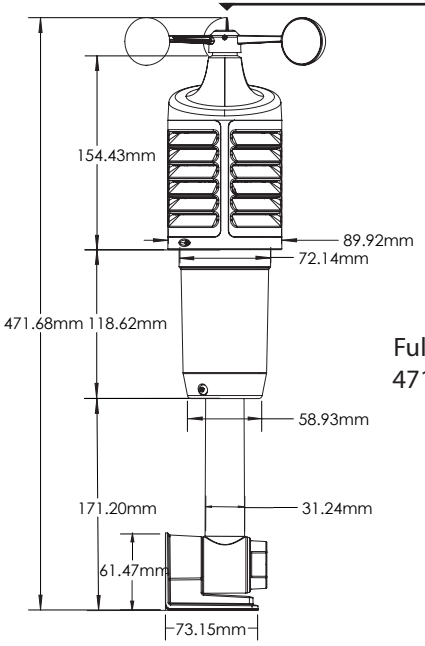
7. Turn the knob to tighten the bracket to the pole

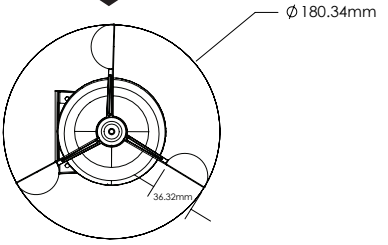
Note: You can attach to a different pole (3.1 cm , 1.2 inches diameter) into the sensor, instead of using the mounting bracket.



Screw until tight.
Do not overtighten.

Sensor Dimensions

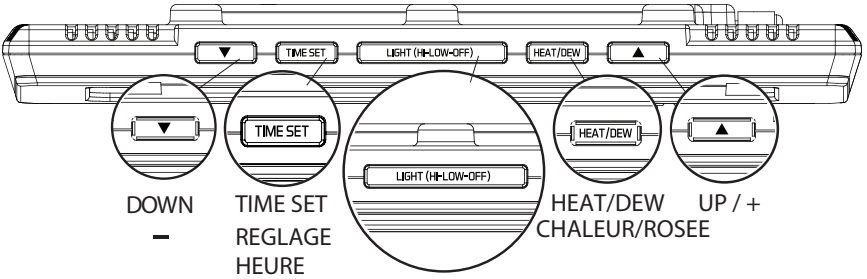



(Top View)

Full Sensor and Bracket (with cup) Dimensions:
471.68T x 180.34W x 180.34D (mm dimensions)

## Button Functions




DOWN
–

TIME SET
REGLAGE
HEURE

LIGHT
HI-LOW-OFF
ECLAIRAGE (fort-bas-off)

HEAT/DEW
CHALEUR/ROSEE

UP / +

## Top Buttons

▼

(Down)
- Press to view channels
- Hold to search for sensors
- Will disarm alert

TIME SET

TIME SET
- Press to search for DCF time signal
- Hold to enter setting mode

LIGHT (HI-LOW-OFF)

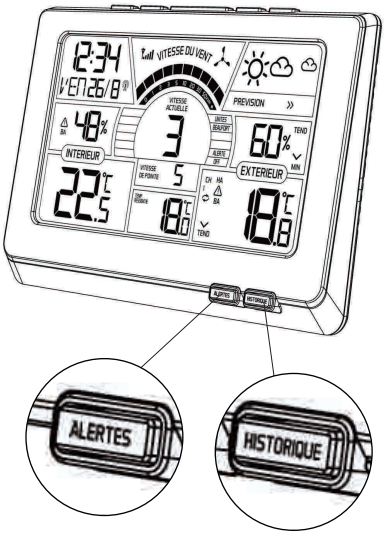
LIGHT (HI-LOW-OFF):
- Press to adjust backlight
- Press to exit setting mode

HEAT/DEW

HEAT/DEW
- Press to view Heat Index/Dew Point
- Hold to change wind speed unit Km/h or Beaufort

▲

(UP)
- Press to view MAX/MIN values
- Hold to reset MAX/MIN values
- Will arm alert




## Front Buttons

ALERTES

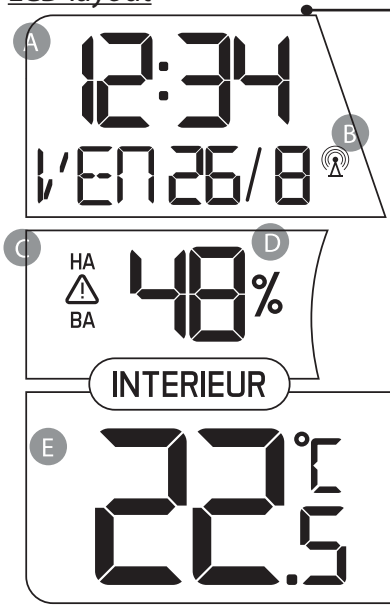
ALERTS
- Hold ALERTES button to enter alerts settings
- ▲ or ▼ to adjust value
- Press ALERTS to confirm

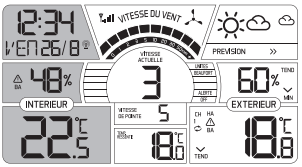
ALERT ACTIVATION
- Press ALERTES button to toggle between alerts
- Press ▲ to arm alerts
- Press ▼ to disarm alerts
- Press ALERTS to confirm

HISTORIQUE

HISTORY
- Press to view top wind speed history

## LCD layout



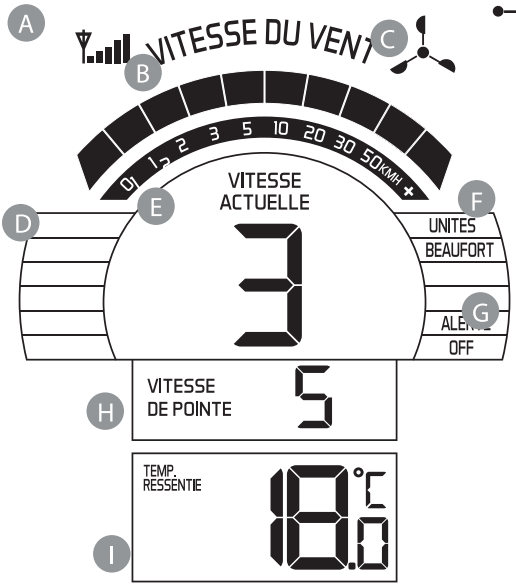

A – Radio controlled Time/Date

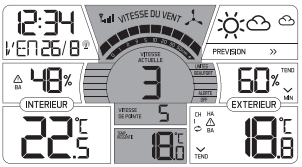
B – Time Signal Icon

C – Indoor Humidity Alert Icon HI and LOW

D – Indoor Humidity

E – Indoor Temperature




A – Sensor Reception Icon

B – Color Wind Speed Graph (based on current speed)

C – Wind Cup Icon (spins with wind speed)

D – Wind Speed History

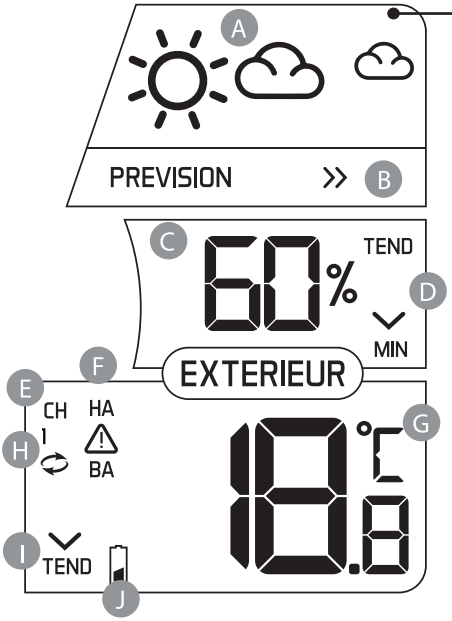
E – Current Speed (30 second average)

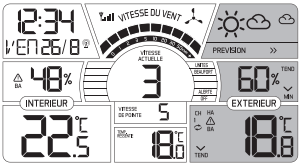
F – Wind Speed Unit (KMH or Beaufort)

G – Wind Speed Alert

H – Top Speed Reading (past 60 minutes)

I – Feels Like (Channel 1 only) Heat Index and Dew Point




A – Forecast Icon

B – Forecast Trend Indicator

C – Outdoor Humidity

D – Humidity Trend Icon

E – Outdoor Temperature Channel Indicator

F – Outdoor Temperature HI/LO Alert Icon

G – Outdoor Temperature

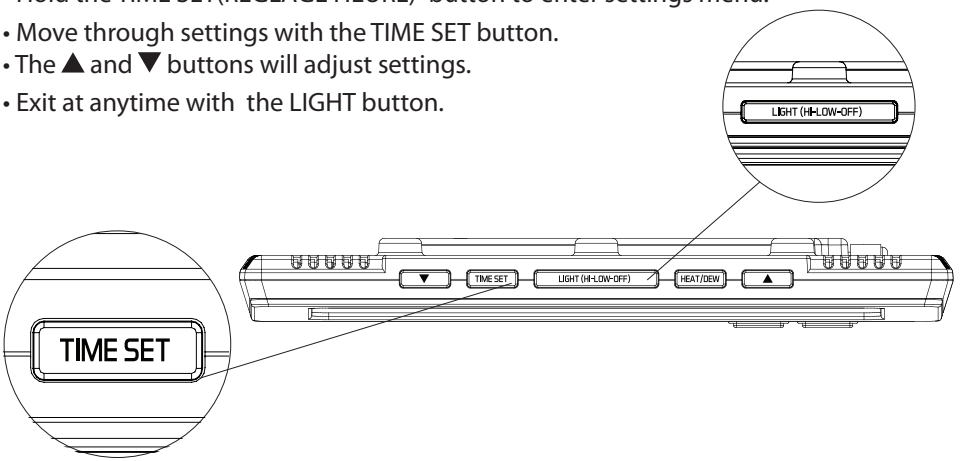
H – Channel Scroll Indicator

I – Outdoor Temperature Trend Indicator

J – Low Battery Indicator

## Settings:

- Hold the TIME SET(REGLAGE HEURE) button to enter settings menu.
- Move through settings with the TIME SET button.
- The ▲ and ▼ buttons will adjust settings.
- Exit at anytime with the LIGHT button.



1. Beep ON (default) or OFF



2. DCF ON (default) or OFF



**Note:** If RCC select OFF, Press the "TIME SET" to confirm the RCC and jump to set 12/24 HOUR

3. Select Time Zone


4. Choose 12 or 24(default) hour time



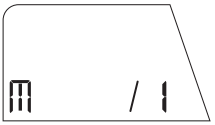
**Note:** the 0H will blink, press the "UP" or "DOWN" to set the desired time zone, the zone range is -12H to 12H. Press and release the TIME SET button to continue

5. Set Hours


6. Set Minutes

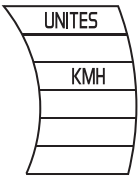

7. Set Year


8. Set Month




9. Set Date


10. Select KMH/ Beaufort





11. Select Celsius/Fahrenheit

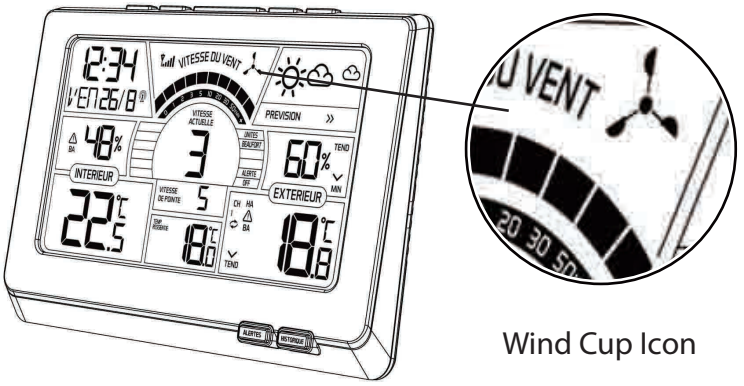

## Color Wind Speed Graph

The wind speed graph with color sections is based on current wind speed. One segment will flash indicating current wind speed.

| Color | Speed |
|---|---|
| Blue | 0-20 KMH |
| Yellow | 20-30 KMH |
| Orange | 30-50 KMH |
| Red | over 50 KMH |


COLOR WIND SPEED ICON

The wind cup icon will spin at varying speeds according to the current speed.




Wind Cup Icon

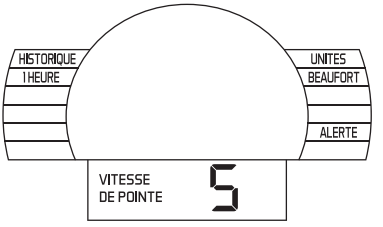
## Top Wind Speed Number


- Highest instantaneous wind speed recorded in the past 60 minutes.
- Updates when a higher wind speed has occurred.
- Last number will remain if there is no wind for 60 minutes.

## Wind History

Press and release the HISTORIQUE button to view the past top wind speeds with time and date of occurrence. The 1 hour top speed is the default reading shown on the display.

- 24-hour: Past 24 hour period, from last record.
- Week: Past 7-day period, from last record.
- Month: Defined by Calendar Month
  i.e. January 1 - January 31.
- Year: Defined by Calendar Year
  i.e. January 1 - December 31.



## Current Wind Speed

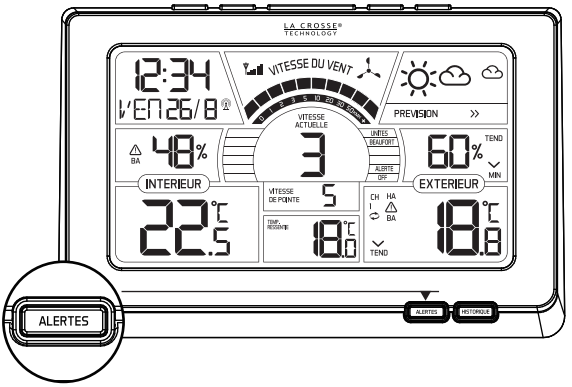

The current wind speed which represents a 30 second average of wind speed samples taken. This should correspond to the wind graph above.

## Wind, Temperature & Humidity Alerts

Setting alert value and arming individual alerts are separate functions.

Set alert value:
1. Hold the ALERTES button for 3 seconds to enter alert set mode.
2. The high wind speed alert value will blink in set mode.
3. Press the ▲ or ▼ buttons to adjust the values.
4. Press the ALERTES button to confirm and move to the next alert.

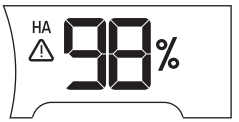
The alert setting order:
- High Wind Speed (channel 1 only)
- Outdoor Humidity HI(HA)
- Outdoor Humidity LOW(BA)
- Outdoor Temperature HI(HA)
- Outdoor Temperature LOW(BA)
- Indoor Humidity HI(HA)
- Indoor Humidity LOW(BA)
- Indoor Temperature HI(HA)
- Indoor Temperature LOW(BA)



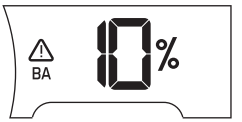

**Note:** When using multiple temperature/humidity sensors, press the ▼ button to select the channel (1, 2, or 3) before setting alerts for a sensor.

Wind Speed High Alert


Outdoor HI Humidity




Outdoor LOW Humidity




Outdoor HI Temperature


Outdoor LOW Temperature


Indoor HI Humidity


Indoor LOW Humidity


Indoor HI Temperature


Indoor LOW Temperature

## Arm/Disarm Alerts:

1. Press and release the ALERTES button to select an alert. HI (HA) and LO (BA) will flash.
2. Press the ▲ button to arm the alert.
3. Press the ▼ button to disarm the alert.
4. The HI (HA) or LO (BA) alert icon appears when armed.

Active Alert: Beeps once per minute with flashing alert icon.

## Feels Like Temperature, Heat Index, Dew Point Temperature

Press the HEAT/DEW (CHALEUR/ROSEE) button repeatedly to toggle between:

Feels Like Temperature (Channel 1 only)
Default (always displayed)


Heat Index (outdoor)


Dew Point (outdoor)


Note: Feels Like Temperature is the perceived outdoor temperature.

- Temperatures below 10°C (50°F), will measure the effect of wind speed on cooling of the human body.
- Temperatures above 21.1°C (70°F), will measure the effect of humidity on the perception of temperature.
- Between 10.6 °C (51 °F) and 20.6 °C (69°F), the feels like temperature will be the same as the outdoor temperature on channel 1.

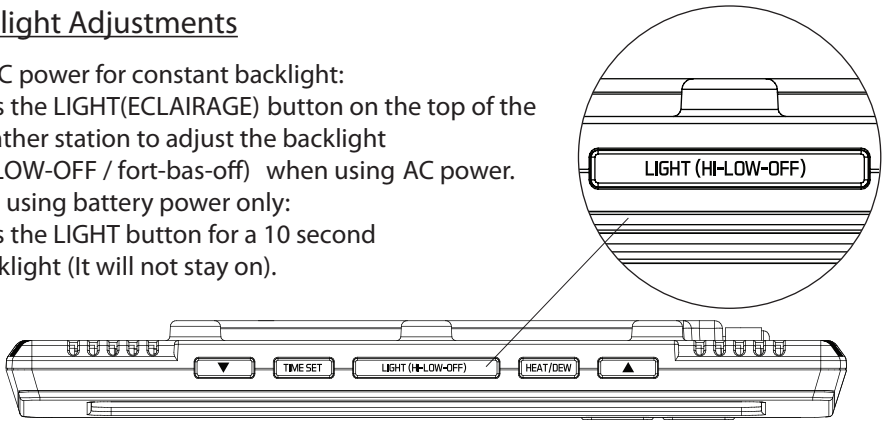
## Backlight Adjustments

Use AC power for constant backlight:

- Press the LIGHT(ECLAIRAGE) button on the top of the weather station to adjust the backlight (HI-LOW-OFF / fort-bas-off) when using AC power.

When using battery power only:

- Press the LIGHT button for a 10 second backlight (It will not stay on).

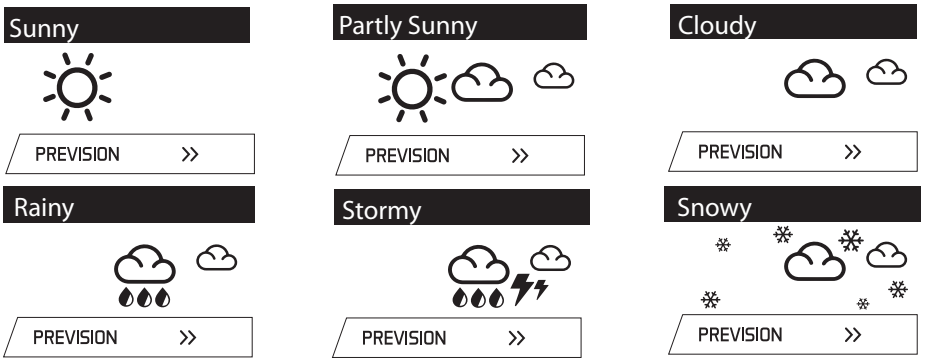


## Forecast Information

Intelligent Weather Forecast:

This station learns: Please allow 7-10 days for barometric calibration. This will ensure an accurate personal forecast for your location.

Six animated forecast icons use changing atmospheric pressure to predict weather conditions for the next 12-hours with 70-75% accuracy.




**Note:** Snowy icon will appear in place of rainy and stormy icons when the outdoor temperature (Channel 1) is below 0°C.

## Forecast Tendency Indicators (Up, Right and Down Arrows)

| Rising Pressure | Steady Pressure | Falling Pressure |
|---|---|---|
| Weather is expected to improve | Weather is expected to stay the same | Weather is expected to worsen |

## Time Signal

— Time signal Icon

- When DCF is on, press and release the TIME SET button to start or stop a DCF signal search.
- DCF Icon will flash when searching.

**Note:** To ensure good signal reception, we invite you to place the base away from the AC adapter by extending the wire of the adapter, as this can disrupt the signal reception.

## 24 hour MAX/MIN Temperature/Humidity records

The station automatically resets MAX and MIN values daily at midnight (00:00).

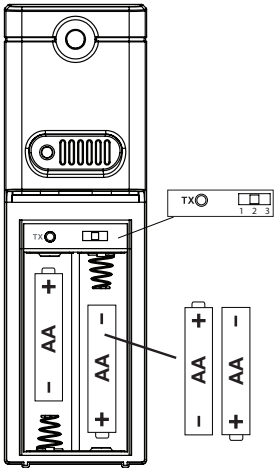
- Press the ▲ button once to view MAX indoor/outdoor temperatures.
- Then, hold the ▲ button to manually reset MAX temperatures to current values.
- Press the ▲ button again to view the MIN indoor/outdoor temperatures.
- Then, hold the ▲ button to manually reset MIN temperatures to current values.

## Setup Add On Temperature/Humidity Sensors

The wind station will accommodate up to two additional thermohygro sensors (TX141TH-BCHV3) on channels 2 and 3.

Note: The TX141W sensor must be on channel 1.

Press the ▼ button to view sensors on other channels.




Setup additional sensors to the wind station:

1. Remove the battery cover from all the sensors (leave battery covers off until all sensors are received by the wind station).
2. Set the first additional sensor to Channel 2 and insert 2 AA batteries.
3. Set the second additional sensor to Channel 3 and insert 2 AA batteries.
4. Hold the ▼ button on the wind station for 5 seconds to search for sensors.
5. Press the TX button on each sensor.
6. When connection is established, the temperature & humidity for each of the selected channels will appear.
7. Install the battery covers on each sensor.
8. Keep sensors and the wind station 1.5-3 meter apart for 15 minutes to establish a solid connection.
9. After 15 minutes, place the remote sensors in appropriate shaded locations.
10. Press and release the ▼ button to view channels 1, 2 or 3 on the wind station when multiple sensors are used.

Note: If only one sensor is connected, the other channels will show dashes for temperature and humidity.

## Channel Indicator

CH
123

- Press the ▼ button to toggle between remote sensor channels when multiple sensors are used.

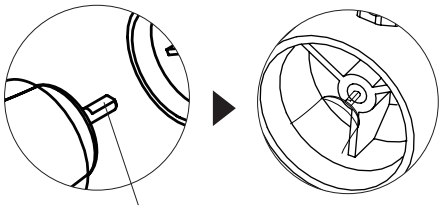
## Channel Auto Scroll

- The wind station will automatically rotate through the channels for all connected sensors.
- Press and release the ▼ button to lock the wind station into one channel.
- Then press the ▼ button to view channels individually.

## Replace Wind Cups

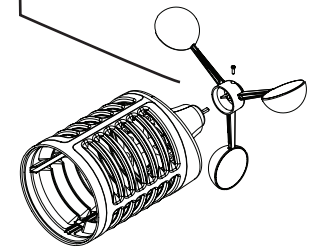
1. Loosen the screw
2. Remove cups
3. Install new cups
4. Tighten screw

Note: The screw in the wind cups will fit on the flat side of the metal stem on the sensor.



Flat Side Of Stem Up

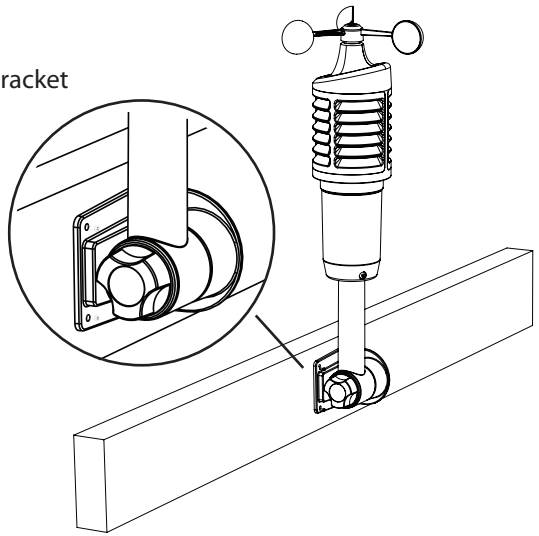
Insert and Attatch Flat End up



## Position Wind Sensor

- For the most accurate wind speed readings, mount the TX141W sensor as the highest object for 15 meter in all directions.
- Cups should be on the top of the sensor. Mount vertically.
- The maximum wireless transmission range to the wind station is 91 meters (over 300 feet) in open air, not including walls or trees.

1. Insert mounting pole into sensor.
2. Tighten screws
3. Insert bottom of pole into mounting bracket
4. Tighten knob to secure
5. Use screws through the bottom of the mounting bracket to attach.
6. The sensor can be mounted from the bottom or side. (the picture is of the sensor mounted from the side)



Alternatively:

1. Insert your own mounting pole into the sensor.
2. Tighten screws
3. Mounting bracket would not be used.

Note: Do not attempt to insert a pole into the hollow back of the mounting bracket.

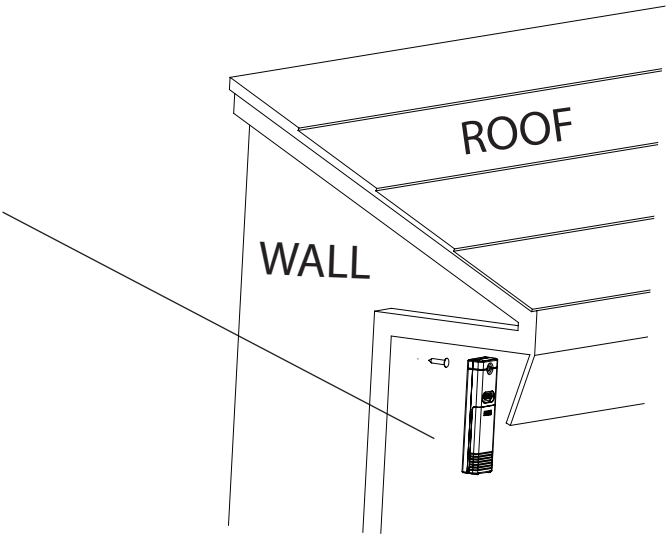
## Position Add On Sensors

- Mount the outdoor sensor on a north-facing wall or in any well shaded area. Under an eave or deck rail is preferred.
- The maximum wireless transmission range to the weather station is 91 meters (over 300 feet ) in open air, not including walls or floors.
- Be sure the outdoor sensor is mounted vertically

Option 1:
- Install one mounting screw into a wall leaving some extended.
- Place the transmitter onto the screw.
- Gently pull the transmitter down to lock the screw into place.

Option 2:
- Insert the mounting screw through the front of the transmitter and into the wall.
- Tighten the screw to snug (do not over tighten).

Mount sensor on a north-facing wall (under an eave or deck rail is preferred)




## Position Weather Station

- Pull out the stand and place on a flat surface.
- Use the three hanging holes on the back to mount on the wall.

1. Choose a location 1.8 meter or more away from electronics such as cordless phones, gaming systems, televisions, microwaves, routers, etc.
2. Place within range of the outdoor sensors (91 meters, 300 ft open air).
3. Obstacles such as walls, windows, stucco, concrete, and large metal objects can reduce the range.
4. For best DCF reception, orientate the weather station with the back of the station facing Frankfurt, Germany.

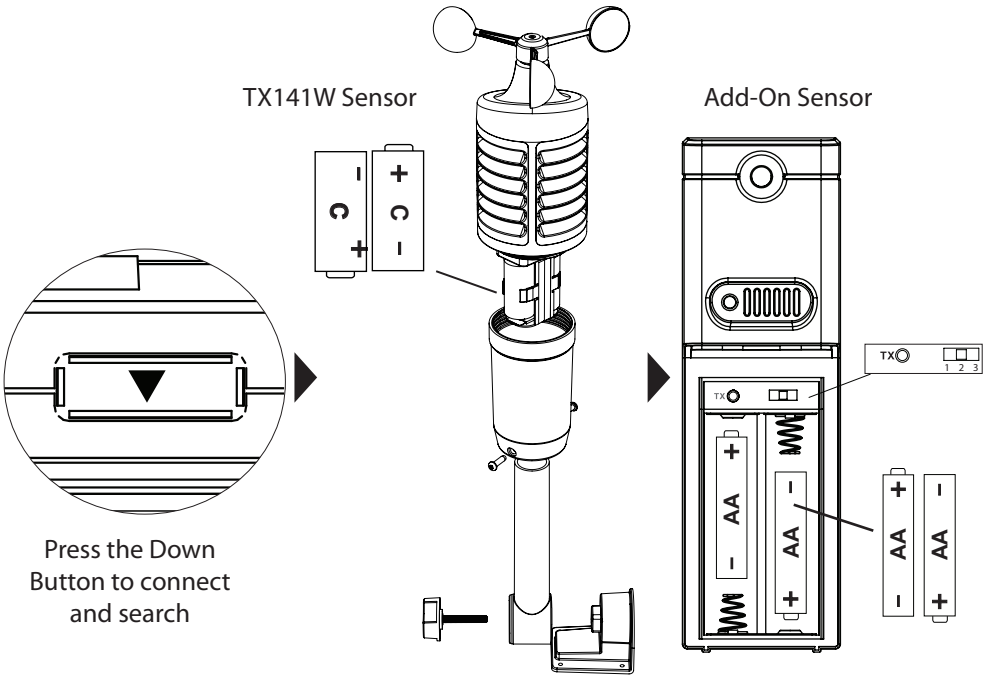
## Restart

1. Remove batteries from the sensor and batteries and AC adapter from the weather station.
2. Press any button 20 times.
3. After 15 minutes insert batteries into the sensor, then insert batteries (optional in the weather station) and plug AC adapter into the weather station.
4. Wait 15 minutes to establish a strong connection. Place sensor outside.

## Change Batteries

TX141W Sensor mounted:

1. Grab the vented portion of the sensor and turn counter clockwise.
2. Remove old batteries and install fresh "C" batteries.
3. Carefully align and turn clockwise to tighten.
4. Hold the ▼ button on the weather station for 5 seconds to search for the sensor.




Add on Sensor(s):

1. Slide battery cover down and lift off sensor.
2. Remove old batteries and install fresh "AA" batteries.
3. Hold the ▼ button on the weather station for 5 seconds to search for the sensor.

## Care and Maintenance

- Do not mix old and new batteries
- Do not mix Alkaline, Standard, Lithium or Rechargeable Batteries
- Always purchase the correct size and grade of battery most suitable for the intended use.
- Replace all batteries of a set at the same time.
- Clean the battery contacts and also those of the device prior to battery installation.
- Ensure the batteries are installed correctly with regard to polarity (+ and -).
- Remove batteries from equipment which is not to be used for an extended period of time.
- Remove expired batteries promptly.
- Do not expose to extreme temperature, vibration or shock.
- Clean with a soft damp cloth. Do not use solvents or scouring agents.
- The product is not a toy. Keep it out of reach of children.
- The product is not to be used for medical purpose or for public information. It is intended for home use only.
- The specs of this product may change without prior notice.
- Improper use or unauthorized opening of housing voids warranty.
- If the product is not working properly, change the batteries and/or check the AC adapter connection.

| Specifications | |
|---|---|
| Indoor | • Temperature Range: 0°C to 50°C (32°F to 122°F)<br>• Humidity Range: 10% - 99% (RH)<br>• Interval: about every 30 seconds |
| Outdoor | • Temperature Range: -40°C to 60°C (-40°F to 140°F)<br>• Humidity Range: 10% - 99% (RH)<br>• Wind Speed Range: 0-120kMh<br>• Distance: 91 meters (Over 300ft. ) RF 433MHz (open air) |
| Power | • Wind Station Primary AC Power:<br>5-volt AC power adapter (included in lower panel)<br>• AC Adapter NO.:<br>HX0180500150A2E 5VAC 150mA<br>• Optional/Battery Backup:<br>3-AAA, IEC, LR3 batteries (not included)<br>• Wind/TH Sensor:<br>2-C, IEC, LR14 batteries (not included) |

| | |
|---|---|
| Battery Life | • Wind Station Battery Backup:<br>Battery life is over 12 months when using the AC adapter for primary power<br>• Wind/TH Sensor:<br>Battery life is over 24 months when using reputable battery brands |
| Dimensions | • Wind Station: 139.19 x 211.84 x 26.12 mm<br>(5.48″ H x 8.34″ L x 1.03″ W)<br>• TX141W Sensor:471.68 x 180.34 x 180.34 mm<br>( 18.57″ H x 7.10″ W x 7.10″ D) |

## Liability Disclaimer

- The electrical and electronic wastes contain hazardous substances. Disposal of electronic waste in wild country and/or in unauthorized grounds strongly damages the environment.
- Please contact your local or/and regional authorities to retrieve the addresses of legal dumping grounds with selective collection.
- All electronic instruments must from now on be recycled. User shall take an active part in the reuse, recycling and recovery of the electrical and electronic waste.
- The unrestricted disposal of electronic waste may do harm on public health and the quality of environment.
- As stated on the gift box and labeled on the product, reading the “User manual” is highly recommended for the benefit of the user. This product must however not be thrown in general rubbish collection points.
- 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 designed for use in the home only as indication of the temperature.
- The plug on the power adapter (if included) is intended to serve as the disconnect device,the socket-outlet shall be installed near the equipment and shall be easily accessible.
- This product is not to be used for medical purposes or for public information.
- The specifications of this product may change without prior notice.
- This product is not a toy. Keep out of the reach of children.
- No part of this manual may be reproduced without written authorization of the manufacturer.

**AB OUT THE AC / DC SECTOR ADAPTER**

Do not use the device:
- if the power supply or the power cable is damaged,
- in the event of a malfunction,
- if the device has been damaged in any way.

Never use sharp objects to access the inside of the power supply. Do not disassemble the power supply, do not throw it into a fire. Do not attempt to disassemble or modify this product or any of its components. Do not expose the power supply to high temperatures or direct sunlight. Do not incinerate it. Do not install the power supply near any heat sources, such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not store this product in a place where the temperature exceeds the following range: - 10 to 70 ° C. Do not use this product in a place where the temperature exceeds the following range: 0 to 40 ° C, as this may damage it or shorten its life. Do not place the power supply near water or a source of moisture, such as a bathtub, washbasin, kitchen sink, swimming pool, wet basement, or other damp locations. The device must not be exposed to splashing. Do not place objects filled with water, such as vases, near the unit. Plug the power supply into an easily accessible power outlet. Make sure that the power cord can not be crushed or pinched, especially at plugs, convenience receptacles, and the point where they connect to the machine. The supplied power supply is intended for indoor use only. Do not place naked flame sources (such as a lit candle) on or near the power supply. Unplug this power during lightning storms or when unused for long periods of time to prevent damage. Turn off your device before unplugging the power cable. This device is not intended for use by persons (including children) whose physical, sensory or mental capabilities are reduced, or persons without experience or knowledge, unless they have been intermediary of a person responsible for their safety, surveillance or prior instructions concerning the use of the device. Children should be supervised to make sure they do not play with the device. If the power supply is operating abnormally, particularly if it emits sounds or odors that you think are abnormal, unplug it immediately and have it inspected by a qualified service person.
The socket outlet must be installed near the equipment and must be easily accessible.

RED Directive 2014/53/EU
Summary of the Declaration of Conformity : We hereby declare that this wireless transmission device does comply with the essential requirements of RED Directive 2014/53/EU

LA CROSSE TECHNOLOGY
6A RUE DU COMMERCE
67118 GEISPOLSHEIM - FRANCE

## Caution!

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.



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