LA CROSSE®
TECHNOLOGY

Instructional Manual

Model: WS6867

Table of Contents

Setup Preparation

Here are some items needed to setup your station (not included):
1. Phillips head screwdriver for assembly.
2. Fresh Batteries: 5 (five) AA alkaline or lithium batteries for
   the sensors.
   3 (three) AAA alkaline batteries for
   the station (optional).

For best results:
• Remove weather station and sensors from the package and place together on a table or bench, within easy reach.

• Place batteries and screwdriver within reach of setup location.

• Keep sensors and weather station 2-3 meter apart for the first 15 minutes after installing batteries.

Setup

(1) **Power up.** Observe correct polarity.
   • <u>Thermo-hygro sensor-</u> 2-AA batteries
   • <u>Multi-sensor-</u> 3-AA batteries
   • <u>Weather Station-</u> 5.0 Volt AC adapter and 3-AAA batteries (optional)

Note: Batteries are not included
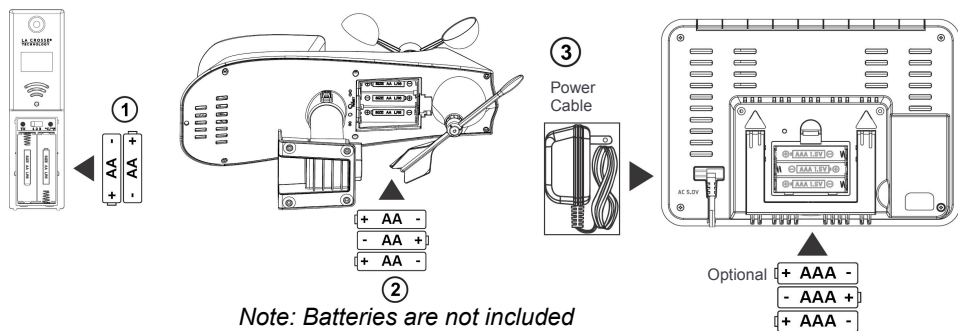
Software version will show for 2 seconds. Lower left corner.

(2) **Place sensors outdoors** at least 2 meter above objects below them (ground, roof, etc.)
   • <u>Thermo-hygro sensor-</u>Place in a shaded location to protect from sun.
   • <u>Multi-sensor-</u> Place in an open area. No obstructions for 15 meter in all directions.
     Enjoy your backyard weather!

③ **Configure basic settings.** Hold the SET button to enter settings. Press and release the +/- buttons to make adjustments and the SET button to confirm.
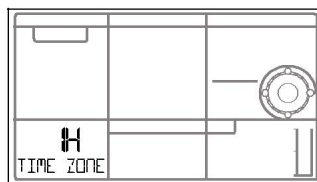
Settings order:
- BEEP ON/OFF
- Time zone (-12 to +12)
- Auto DST ON/OFF (Daylight Saving Time)
- Hour
- Minutes
- 12h/24h hour format
- Year
- Month
- Date
- Temperature (C/F)
- Wind degree or direction (letters) select
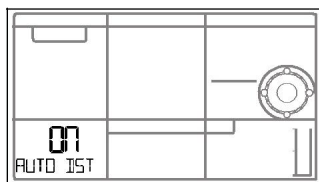- Wind speed select (mph/kmh)
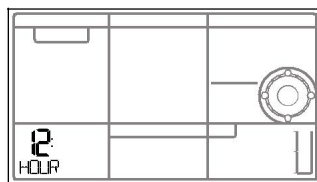- Rainfall unit select (in/mm)

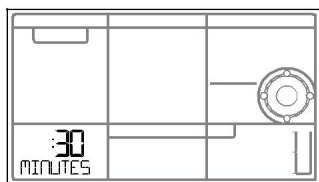| 1. BEEP ON | OFF	2. Time Zone (-12 to + 12)

ON
BEEP

H
TIME ZONE
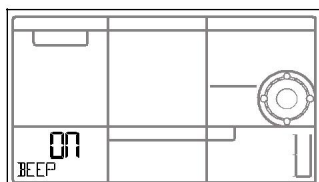
3. Auto DST ON | OFF	4. Hours

ON
AUTO DST

12
HOUR

5. Minutes	6. 12 | 24 Hour Format

30
MINUTES
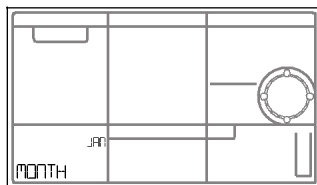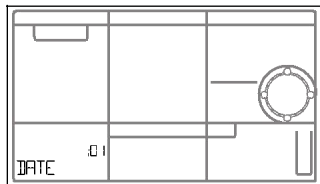
12Hr
FORMAT
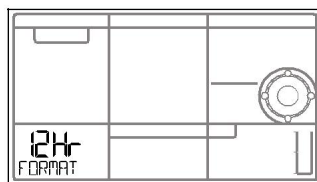
7. Year
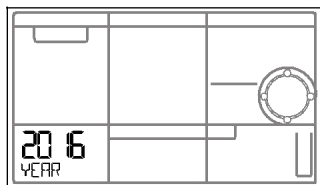
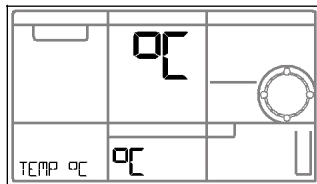
8. Month

9. Date

10. Fahrenheit | Celsius

11. Wind Direction (degrees | letters)
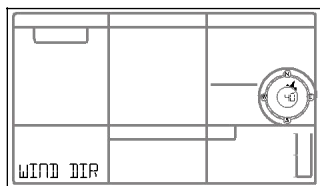
12. Wind Speed (MPH | KMH)
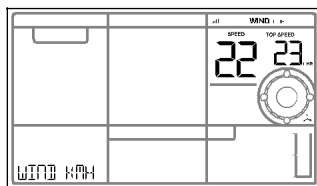
13. Rain (INCH | MM)
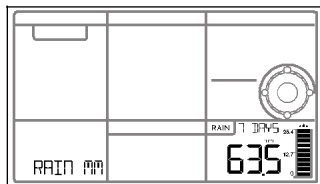
- Press the LIGHT button at any time to exit.

- After 30 seconds with no button press, the station will default back to normal time display.

Display icons
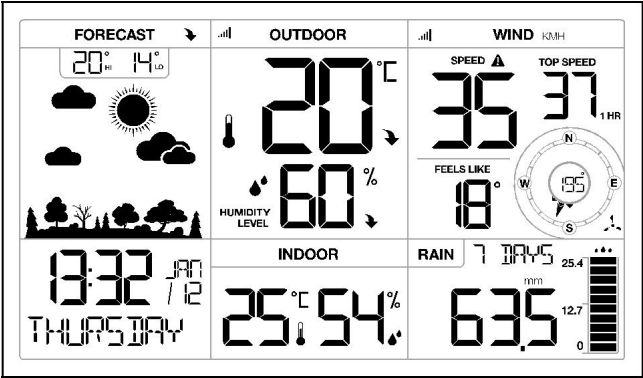
📶	WIFI Strength	🌡	Temperature
➤	Trend Arrows	%	Percent Humidity
📶	Sensor Strength	💧	Humidity
⚠	HI | LO Alert	⤙	Wind Direction
°F °C	Fahrenheit | Celsius	Υ	Wind Speed
☁	Forecast Icon		
🌳	Seasonal Trees		Rainfall Graph

Wind Readings

• <u>Current Speed: Highest speed past 30 seconds</u>
• <u>Top Speed: Highest speed in the past hour</u>
• <u>Feels Like: Temperature | Humidity | Wind Speed</u>
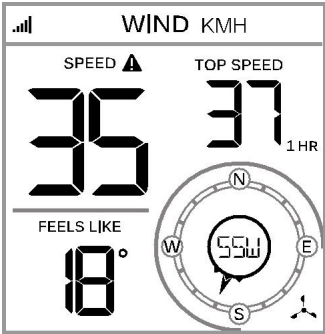
• <u>Wind Direction:</u> In letters or degrees
• <u>History:</u> Press and release the WIND button to view:
    1 Hour (default) | 24 Hour | 7 Days | Month | Year

Wind History

Press and release the WIND button to view the maximum wind history values.

- One Hour: past 60 minute period (default Top Speed record, already shown)
- 24-hour: Past 24 hour period, from last record
- 7 Days: 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

Reset Wind Speed History:
- Press the WIND button to view individual wind speed readings.
- Hold the MINUS button for five seconds to reset the individual value.
- Wind speed reading will reset to current 1H top wind speed.

Note:

- If 1H,24H and 7 days top wind speed reading are same, reset the value of 24H and 7 days will no change, only if the wind has run for 1 H and new 1H top speed value lower than 24H and 7 days, 24H and 7 days value can be reset to new 1H top wind speed.

- If 1H top speed value is higher than 24H and 7 days top speed value, 24H and 7 days top speed record will immediately update to the same value of 1H top wind speed, in this case, reset the value of 24H and 7 days will no change

- If 1H top speed value is lower than 24H and 7 days top speed value, 24H and 7 days top speed can be reset to 1H top speed value

24 Hours	7 Days

WIND KMH
TOP SPEED
29
24 HOURS

WIND KMH
TOP SPEED
47
7 DAYS

Month	Year

WIND KMH
TOP SPEED
51
SEP
MONTH
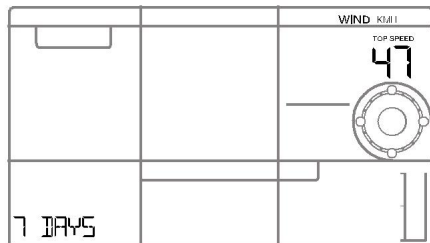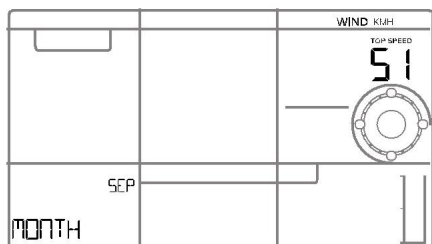
WIND KMH
TOP SPEED
85
2016
YEAR
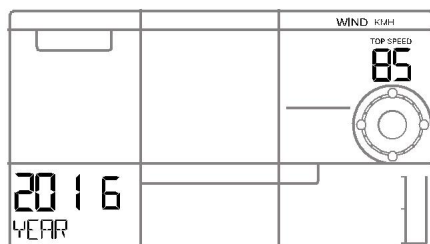
Rain Readings | History

Press and release the RAIN button to view:
- One Hour: past 60 minute periods, from last record
- Day: 24 hr period from 12:00am - 11:59pm. With current date
- 24-hour: Past 24 hour period, from last record.
- 7 Days: Past 7-day period, from last record
- Month: Defined by Calendar Month i.e. January 1 - January 31.
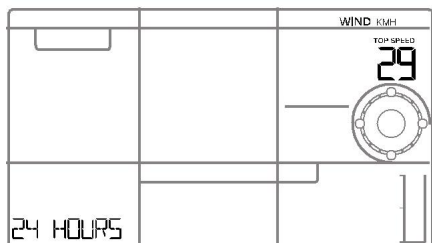- Year: Defined by Calendar Year i.e. January 1 - December 31.
- Total: running total since station was powered up (no time stamp)

- Select your rain history and the station will keep your selection.
- After viewing a history record for 5 seconds, the station will return to the normal view.

One Hour	24 Hours

RAIN ONE HR   9.7

RAIN 24 HR   274

Day (12:00am - 11:59pm)	7 Day

13:32 JAN 12 THURSDAY   RAIN DAY   46

RAIN 7 DAYS   2743

Month	Year

JAN   RAIN MONTH   523

2016   RAIN YEAR   816.1

Total

RAIN TOTAL   1221
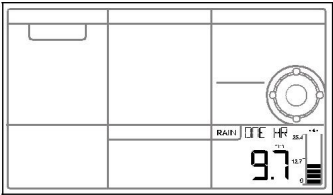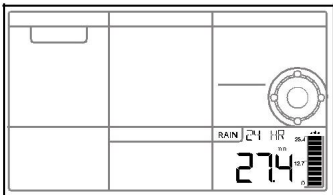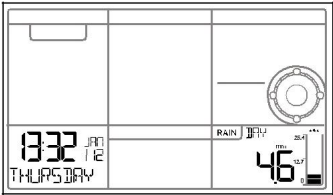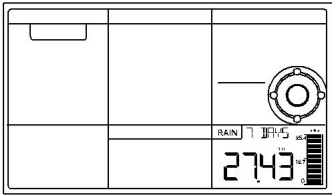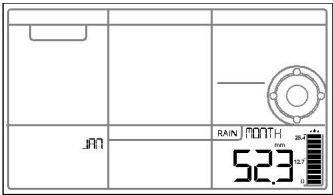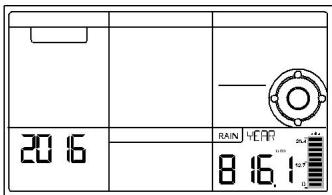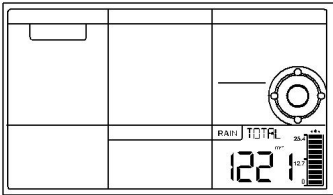
Reset Rainfall Readings (each resets individually):
- Press the RAIN button to view individual rain readings.
- Hold the MINUS button for five seconds to reset the individual value.
- Rainfall reading will reset to 0.00

Temperature/Humidity HI | LO Readings

Press and release the TEMP button to view HI/LO temperature and humidity readings with time/date stamp.
• Outdoor temperature HIGH
• Outdoor temperature LOW
• Outdoor humidity HIGH
• Outdoor humidity LOW
• Indoor temperature HIGH
• Indoor temperature LOW
• Indoor humidity HIGH
• Indoor humidity LOW
• Feels like HIGH
• Feels like LOW
• Outdoor dew point

Note: Feels Like and Dew Point is not time/date stamped.

Outdoor Temp HI
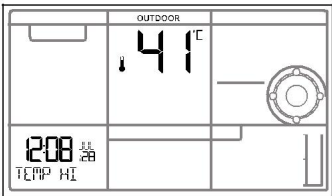
Outdoor Temp LO
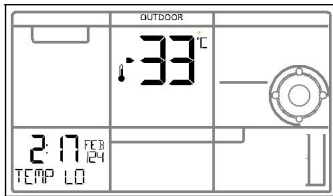
Outdoor Humidity HI
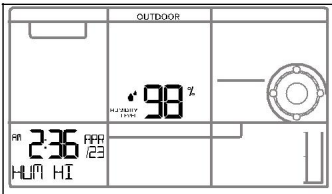
Outdoor Humidity LO
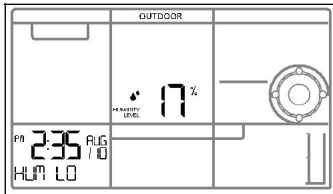
Indoor Temp HI
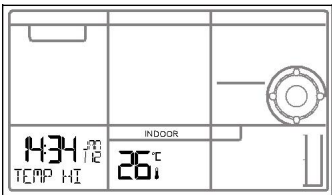
Indoor Temp LO
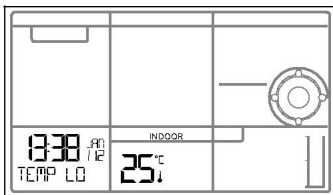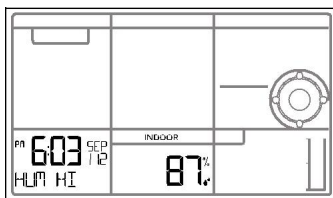
Indoor Humidity HI	Indoor Humidity LO
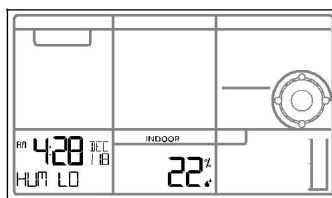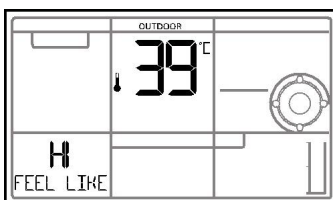
Feels Like HI	Feels Like LO
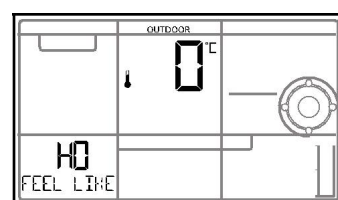
Dew Point
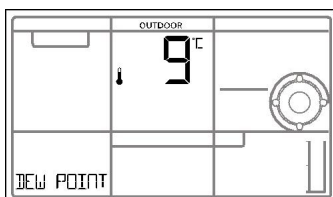
Types of Weather Alerts

There are 20 weather alerts available on this weather station.

• Outdoor LOW Temperature ON/OFF
• Outdoor LOW Temperature Value -40°C-60°C (-40°F-140°F)
• Outdoor HIGH Temperature ON/OFF
• Outdoor HIGH Temperature Value -40°C-60°C (-40°F-140°F)

• Outdoor LOW Humidity ON/OFF
• Outdoor LOW Humidity Value 10%RH-99%RH
• Outdoor HIGH Humidity ON/OFF
• Outdoor HIGH Humidity Value 10%RH-99%RH

• Indoor LOW Temperature ON/OFF
• Indoor LOW Temperature Value 0°C-50°C(32°F-122°F)
• Indoor HIGH Temperature ON/OFF
• Indoor HIGH Temperature Value 0°C-50°C (32°F-122°F)

- Indoor LOW Humidity ON/OFF
- Indoor LOW Humidity Value 10%RH-99%RH
- Indoor HIGH Humidity ON/OFF
- Indoor HIGH Humidity Value 10%RH-99%RH

- 24-hour Rainfall ON/OFF
- 24-hour Rainfall Value 0-99.9mm (0-3.93 inches)

- High Wind Speed ON/OFF (CURRENT wind)
- High Wind Speed Value 0-180kmh (0-111 mph) (CURRENT wind)

Set Weather Alerts

Hold the ALERTS button 2 seconds to enter alert set mode.
Outdoor Low Temperature alert OFF will show.

ALERT ON:
1. Press the +/- buttons to arm the alert.
2. Press the ALERTS button and the alert value will flash
3. Press the +/- buttons to set the alert value (Hold to set quickly).
4. Press ALERTS button to move to next alert.

ALERT OFF:
1. Alerts are OFF unless armed. If you do not wish to set an alert, simply press the ALERTS button again to move to the next alert.

Alert OFF use +/- to arm	Alert ON use +/- to set value

Active Alert:
- When armed alert value is reached, station will beep 5 times each minute, until out of alert range.
- The flashing alert icon will indicate if is a LOW or HI alert.

HI ⚠ LO

- Press any button to stop the alert sound.
- The alert icon will flash while value is in alert range.

Weather Forecast Icons

- The forecast icons are determine by the barometric pressure sensor.
- The tendency arrow show the changes on the barometric pressure is rising or falling.
- When Outdoor temperature is below 0°C and the forecast is RAIN or T-STORM, the LCD will display SNOW.

SUNNY | PARTLY CLOUDY | CLOUDS

RAIN | T-STORM | SNOW
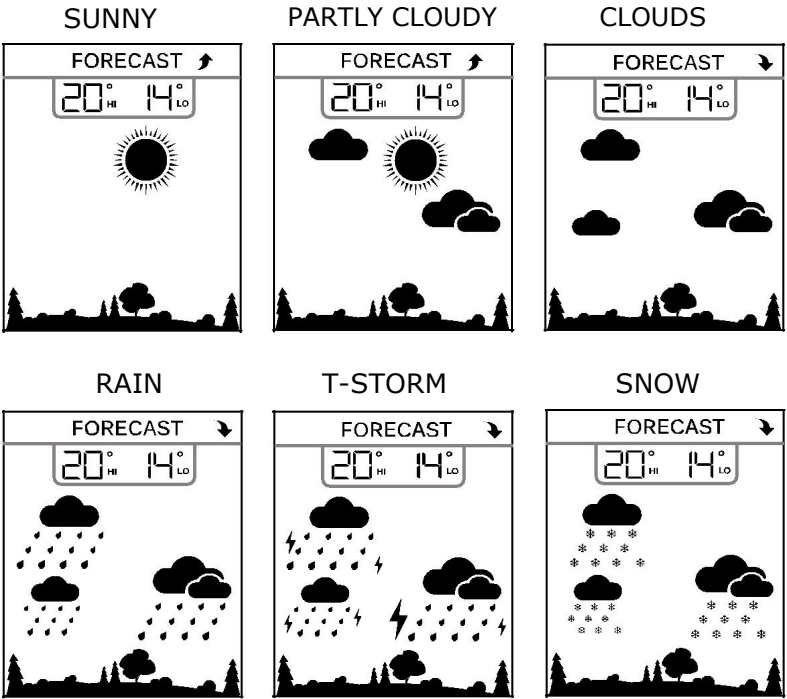
Seasonal Trees

- The trees and foliage color will change seasonally. The dates are programmed into the weather station for the scene to change automatically.

Spring: March 20th – Jun 20th

Summer: Jun 21st – Sep 20th

Autumn: Sep 21st – Dec 20th

Winter: Dec 21st – Mar 19th
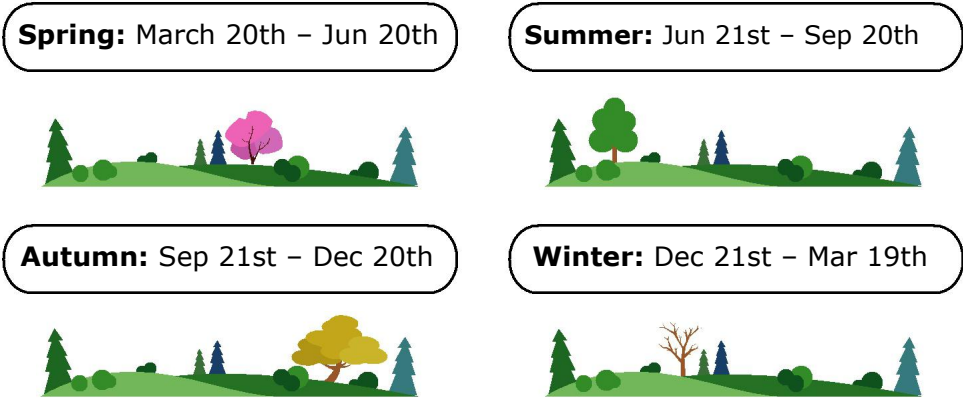
Sensor Search

Each sensor has a unique ID and will be "parked" to the correct sensor location on the display until manually deleted.
• If sensor loses connection to the weather station for any reason, the weather station will show dashes after 30 minutes.
• The weather station will search for 5 minutes every hour to reconnect with sensor.

• In normal mode press and release the SENSOR button to view individual sensor ID's for up to 15 seconds.
• Press and release the + button to search for the sensor, who's ID is shown.

TH Sensor ID	Multi-sensor ID
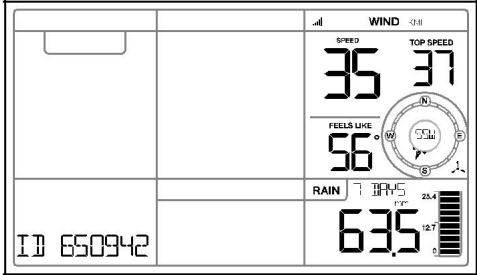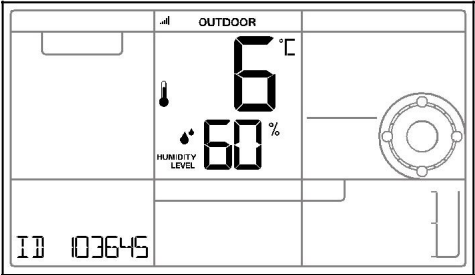
• The strength signal icon will animate until the sensor signal is received, or for 3 minutes if no signal available.

Delete TH Sensor:

1. Press the SENSOR button to view individual sensor ID.
2. Hold the **-** button for 5 seconds to delete the sensor and ID.

TH Sensor Deleted

Add TH Sensor:
1. Install batteries in sensor.
2. Press and release the SENSOR button to view sensor area (dashes).
3. Press the + button to search.
4. Press the TX button on sensor.
5. When sensor connects, ID and readings show.
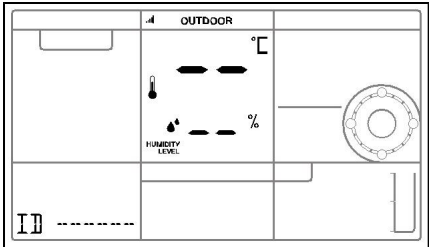
Mounting Instructions

TX233TH Temperature/Humidity Sensor

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.
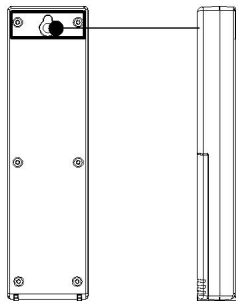
Option 2:
• Insert the mounting screw through the front of the transmitter and into the wall.

• Tighten the screw to snug (do not over tighten).

• Mount the temperature/humidity sensor on a north-facing wall or in any well shaded location. Sun will make it read high.

• Under an eave or deck rail is preferred.

• Be sure the outdoor sensor is mounted vertically to drain moisture.

• Avoid mounting under a metal roof and use stainless steel screws for best RF transmission.
• The maximum wireless transmission range to the weather station is over 100 meters (330 feet) in open air, not including walls or floors.
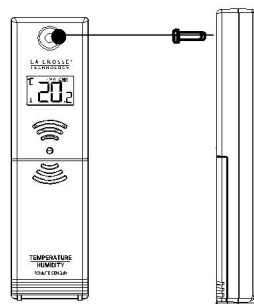
TX233RW Multi-sensor

• For most accurate wind speed and rainfall readings, mount the Multi-sensor in an open area clear for 15 meter in all directions.

• Mount with the solar panel facing south so the wind direction is correct. See N, S, E W, embossed on the top of the sensor.

• Use the bubble level on the top of the sensor to ensure it is level, for accurate rainfall readings.

Bubble Level
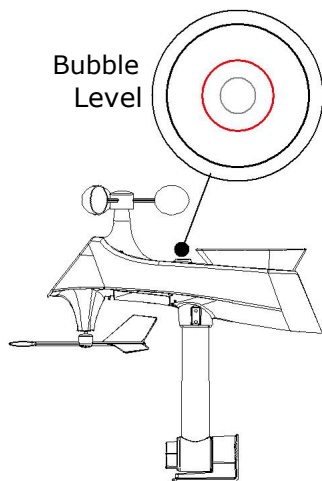
- The maximum wireless transmission range to the station is over 100 meters (330 feet) in open air, not including walls or trees.

- Mount sensor vertically.

- Cups should be on the top of the sensor.

- Attach to mounting surface with screws through the mounting bracket.

- The sensor can be mounted from the bottom or from the side.
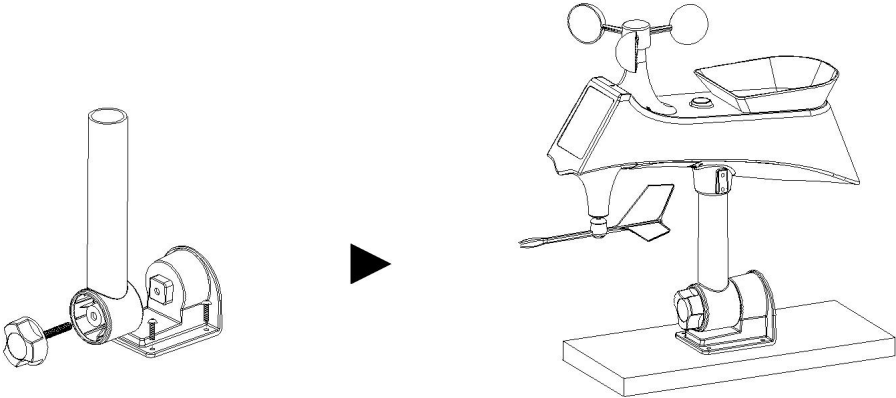
Alternatively:
- Insert your own mounting pole sensor.

- Tighten screws

- Mounting bracket would not be used.

Replace Wind Cups

1. Loosen the screw on side of cups
2. Remove cups
3. Install new cups
4. Tighten screw
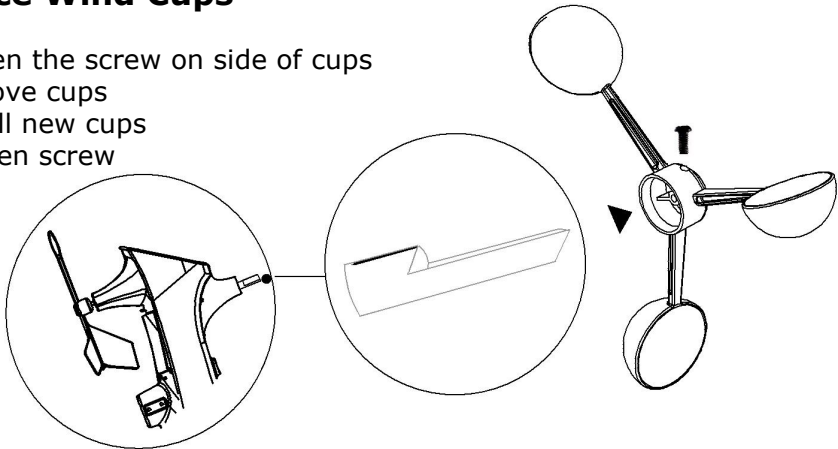
Replace Directional Vane

1. Loosen the screw on side of vane
2. Remove direction vane
3. Install new vane
4. Tighten screw
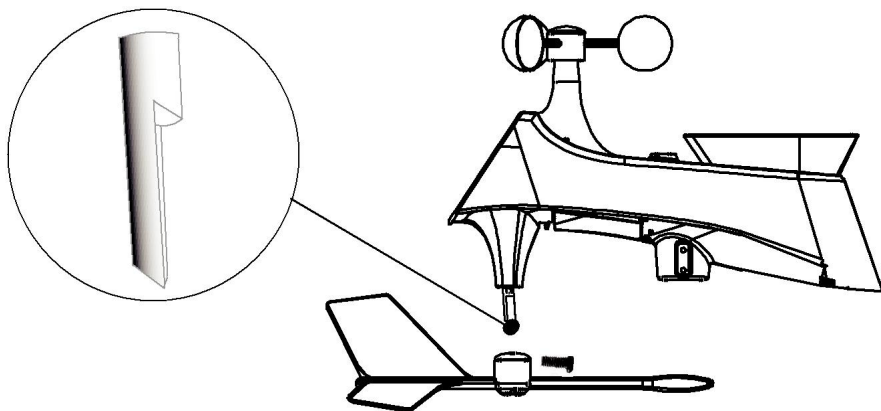
Factory Restart

The factory reset will return the weather station to its default settings. This will clear all previous recorded history, so you may want to write down data before taking this step.

1. Hold the **LIGHT** and **ALERTS** buttons together for 5 seconds to reset the weather station, clear all records, and return all settings to default.

2. The weather station will fully populate, then return to a normal display and search for outdoor sensors.

3. While searching for the outdoor sensors the Wind Speed, Outdoor Temperature/Humidity and Rainfall totals will show dashes.

4. Once connected to the outdoor sensors (allow 3 minutes) the Wind Speed, Outdoor Temperature/Humidity, and Rainfall will show current readings.

WIFI Icon

STEP 1 : Hold the PLUS and MINUS buttons together for 3 seconds to connect the station.
• The connected icon will flash (near "FORECAST") while station is searching for WIFI connection. It will flash up to 1 hour.
• The station must operate on AC power for the WIFI to work.

Slow Flash - no WIFI network connection-check connection
Fast Flash - configure Weather Connect APP
Solid - Connected
Not displayed -No WIFI router-check router

Note: Hold the PLUS and MINUS buttons together for 3 seconds to reconnect, if WIFI signal is lost.

STEP 2 : Register your weather station
Download the Weather Connect app. and register your weather station.

Weather Connect

Note: The Weather Connect
App is only for connecting your
weather station to
Weather Underground

STEP 3 : Get Connected
Download the Weather Underground app. and connect your new weather station to Weather Underground.

When connected:
• Time and date will come from the Internet (set your own time zone)
• View you backyard weather on your phone.
• WI-FI icon will animate according to signal strength.

Specifications

Indoor	• Temperature Range: 0°C to 50°C (32°F to 122°F) • Humidity Range: 10% to 99% RH • Update interval: About every 60 seconds
TH Sensor	• Temperature Range:-40°C to 60°C (-40°F to 140°F) • Humidity Range: 10% to 99% RH • Update interval: About every 58 seconds • Transmission Range:100 m(330 ft) RF 868MHz open air
Multi-sensor	• Wind Speed Range: 0-180 kMh (0-111.8 mph) • Wind Direction: 0-359 degrees • Rainfall: 0-9999 mm(0-393.7 inches) • Update interval: About every 30 seconds • Transmission Range:100 m（330 ft） RF 868MHz open air
Power	• Weather Station: 5.0 Volt 1A adapter included (Primary) • AC6: K05B050100G • Optional Battery: 3-AAA, IEC, LR3 batteries (not included) • TX233RW**:** 3-AA, IEC, LR6 batteries (not included) • TX233TH: 2-AA, IEC, LR6 batteries (not included)
Battery Life	• Weather Station: 60 to 48 months when using adapter. • Multi-sensor/TH sensor: over 24 month with reputable batteries
Dimensions	• Weather Station:204.47 W x 144.78 H x 34.54 D mm (8.05" W x 5.70" H x 1.36" D in) • TX233RW Multi-sensor: 345.69 W x 217.17 H x 130.55 D mm (13.61" W x 8.55" H x 5.14" D) • TX233TH Sensor: 42.42 W x 155.96 H x 21.08 D mm (1.67" W x 6.14" H x 0.83" D)

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.
• Promptly remove expired batteries promptly.

LIABILITY DISCLAIMERS

• 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 lectrical 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.

• 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.

• The plug of the AC adapter (if included) is intended to be used as a disconnect device, the outlet must be installed near the equipment and must be easily accessible.

CAUTION:

Risk of fire or explosion or defeat the safeguard of equipment if the battery is replaced by an incorrect type. Replace only with the same or equivalent type.

Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.

High or low extreme temperatures or low air pressure at high altitude that the battery can be subjected to during use, storage or transportation.

Leaving the battery in an extremely high temperature and/or low high air pressure surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.

ABOUT AC/DC POWER SUPPLY :

Do not use the device:
- if the power supply or power cable is damaged,
- in case of 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

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