

S81120 FAQs

We are weather enthusiasts like you and know proper running equipment is important. These FAQs provide valuable information on setup, positioning, and troubleshooting your station. We recommend Adobe Reader version 10 or greater available at: <http://get.adobe.com/reader>

CONTENTS

S81120 FAQs	1
CONTENTS	1
BATTERIES: What do I need to know about batteries?	2
HARDWARE: Sensors and Station.....	2
What are the power requirements for this station?	3
POWER INPUT: Will this station work in other countries?	3
SETUP: How do I setup my station?	3
MOUNTING: Where do I mount/position my sensor?.....	3
Where to I place my station?	5
What is Distance Resistance Interference?	5
How do I interpret the Current Wind Readings?	6
Help me understand the Wind History Readings.....	6
How do I reset the Wind History Readings?	7
How Often does my Wind Sensor Update?	7
How Often does my Temp/Humidity Sensor Update?.....	7
How do I view my HI and LO Temperature/Humidity Readings?.....	7
How do I reset the Temperature/Humidity Readings?	8
What is Feels Like and Dew Point Temperature?.....	8
How do I set Alerts?	8
How do I view Indoor Temperature/Humidity?	9
Full Weekday or Calendar Display?	9
TIME: Does this station have Atomic Time?	9
How do I manually set the time?	9
OTHER WEATHER STATION FEATURES	11
BACKLIGHT: Does this station have a backlight?	11
What is Auto Dim?.....	11
Can I operate my station on battery power only?.....	11

BATTERY: What do the battery icons mean?	11
WEEKDAY: How do I correct the day of the week?	11
Does this station have 12 hour and 24 hour time options?.....	12
FORECAST ICONS: What do the forecast icons mean?	12
FACTORY RESET: How do I factory reset my station?.....	12
Why doesn't the temperature/humidity readings on my station match the weather report?	12
TEMP ACCURACY: Why does my Thermo-Hygro sensor read inaccurately?	12
How to replace the TH reading from the Wind TH sensor with An TX141TH-BV3?	13
What does a reading of "HI" or "LO" mean?	13
TEMP INTERMITTANT: Why does my Temp/Humidity reading come and go?	13
How do I change between Fahrenheit and Celsius?	14
Can I Add Rain to this Station?	14
How do I view my Time/Date?.....	15
Why are my wind cups not spinning?	15
Can I replace my wind cups?.....	15
WIND READING 0.00: Why do I only see 0.00 for wind speed?	15
WIND DASHES: Why are there dashes for wind readings?.....	16
How do I charge the Wind sensor?.....	16
WIND/Temp INTERMITTANT: Why do my readings come and go?.....	16
WIND ACCURACY: Why is my wind speed inaccurate?	17

BATTERIES: WHAT DO I NEED TO KNOW ABOUT BATTERIES?

- Your S81120 Station: Power Cord is required to operate this station. Optional 2 "AA" batteries to backup Time and History.
- Your TX145WSDTH Wind/TH sensor comes with a ML2032 rechargeable battery. This is charged by the solar panel on the front of the sensor to extend sensor life up to 3 years.

IMPORTANT: The ML2032 battery and the CR2032 battery are not interchangeable. **Using the incorrect battery can potentially damage your sensor.**

HARDWARE: SENSORS AND STATION

Your S81120 station comes with:

TX145WSDTH Sensor with Wind Speed, Wind Direction, Temperature and Humidity Transmission at 433MHz RF.

WHAT ARE THE POWER REQUIREMENTS FOR THIS STATION?

TX145WSDTH: 1 ML2032 battery (included)

S81120: 5 volt power cord (required) and optional 2 “AA” alkaline batteries for backup of your time and date.

POWER INPUT: WILL THIS STATION WORK IN OTHER COUNTRIES?

- No. This station operates at 120 volts and is not compatible to other country power sources.

SETUP: HOW DO I SETUP MY STATION?

Your station is a fully functional standalone station.

1. Remove the Isolation Tab from the TX145WSDTH sensor and turn the switch to ON.
2. Install power cord into wall outlet, and into you S81120 station.
3. Let sensor and station sit within 10 feet of each other for several minutes to lock the sensor signal to the display.

MOUNTING: WHERE DO I MOUNT/POSITION MY SENSOR?

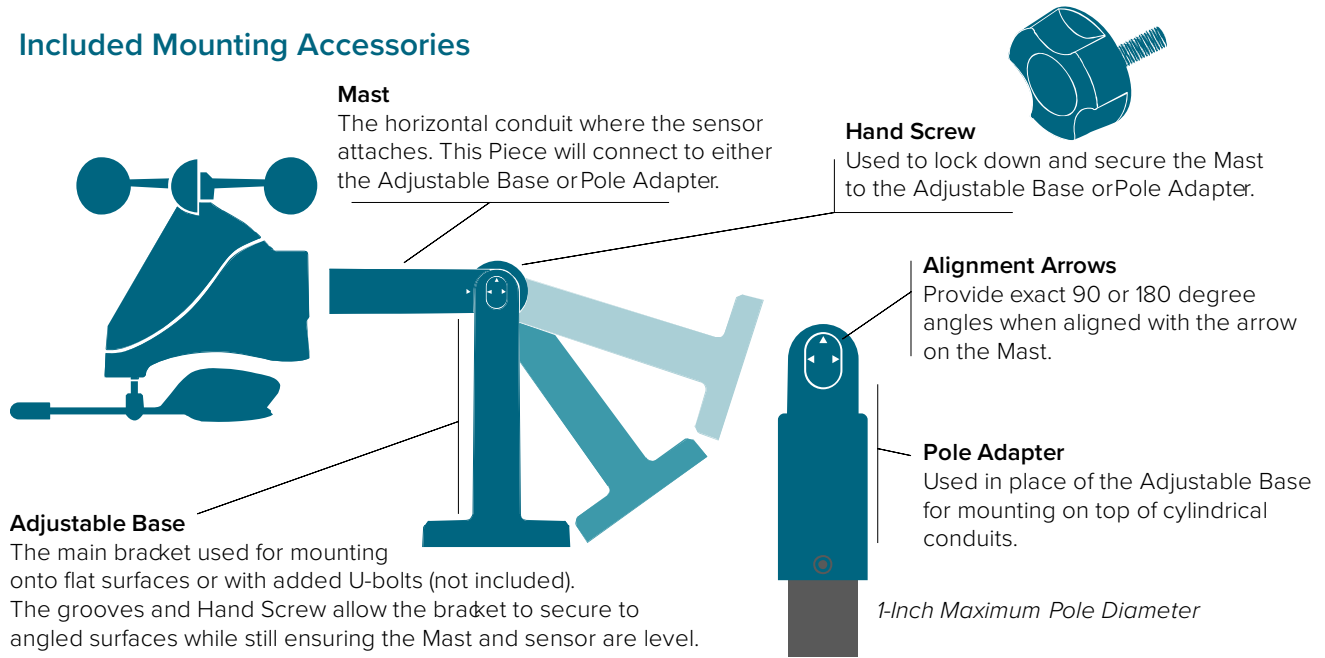
TX145WSDTH:

For Accurate Measurements

- **Ensure the sensor is mounted level with the Solar Panel facing directly to the south.** This will help optimize battery life and transmit correct wind direction readings.
- Ideally, the Breeze Pro Sensor should be mounted on the tallest object in your area. Avoid positioning the sensor in line or below eaves, rooflines, trees, or other objects that may obstruct wind readings.
- Make sure all screws on the Mounting Bracket, Winds Cups, Wind Vane, and Battery Compartment are securely fastened.
- The sensor should be mounted with the Wind Cups on top.

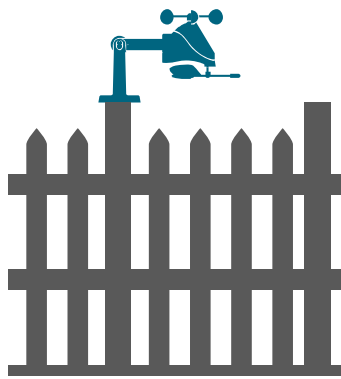
Note: General Wind Sensor mounting video: http://bit.ly/wind_sensor_mounting

Included Mounting Accessories



Basic Installation Options

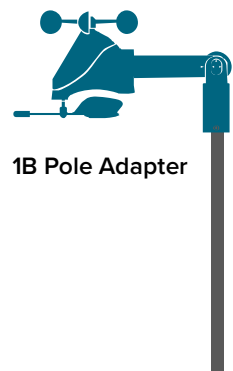
Fence posts, poles, decks, and even mailboxes are all common mounting options due to their convenience. Many users prefer these types of locations as the data they provide is accurate from their ground level perspective. However, because wind in these spots is often affected by obstructions, the readings may differ compared to local reporting stations.



1A Adjustable Base

Basic Assembly

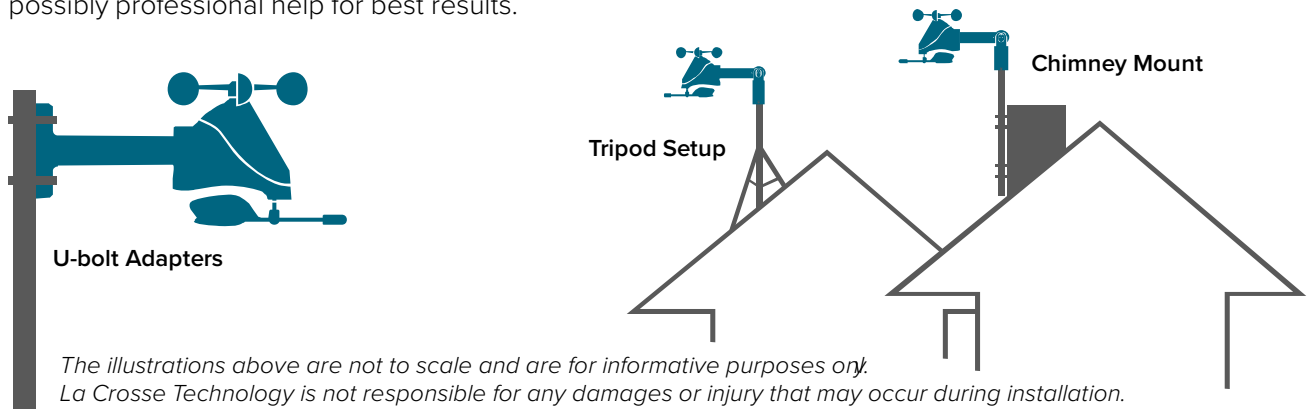
- 1A. Mount the Adjustable Base onto a flat surface using the provided four long screws.
- 1B. Secure the Pole Adapter to a cylindrical conduit using the provided two small screws.
2. Insert the Mast into the Breeze Pro Sensor and tighten the provided screws on the sides.
3. Use the Hand Screw to attach the Mast to either the Adjustable Base or Pole Adapter. Ensure the sensor is level, facing south, and securely fastened at all mounting points.



1B Pole Adapter

Advanced Installation Options

Some advanced installation options include tripods, wall mounts, eave cross mounts, chimney mounts, and many others. Any of these can be combined with U-bolts for attachment onto a tall cylindrical conduit using our Adjustable Base. Please note that these advanced options will require additional equipment and possibly professional help for best results.



WHERE TO I PLACE MY STATION?

Your station is designed for flexible placement on a desk or countertop, or to position on the wall. When the stand is closed, it provides wall mounting holes.

- Position within reach of an outlet that is always active. Some outlets in living rooms and in bedrooms may only be active when the light switch is on.
- This station must operate with the 5 volt power cord in order to receive sensor updates.
- Operation on battery power will only maintain time/date settings if you need to move your station.
- Best reception occurs when only one wall is between your station and each sensor outside.
- Position you station six feet from other electronics and wireless devices. If you suspect RF (radio frequency) interference, simply move your weather station a few feet.

WHAT IS DISTANCE | RESISTANCE | INTERFERENCE?

Distance:

- The maximum transmitting range in open air is over 330 feet (100 meters) between each sensor and your station.
- Consider the signal path from your station to each sensor as a straight line.
- Consider the distance the station is from other electronics in the home.

Resistance:

- Each obstacle: walls, windows, vegetation, stucco, concrete, and large metal objects will reduce the effective signal range by about one-half.
- Mounting your sensors on a metal fence can significantly reduce the effective signal range.

Interference:

- Consider electronics in the signal path between the sensors and your station.
- Simple relocation of the sensors or the station may correct an interference issue.

- Windows can reflect the radio signal.
- Metal will absorb the RF (radio frequency) signal.
- Stucco held to the wall by a metal mesh will cause interference.
- Transmitting antennas from: ham radios, emergency dispatch centers, airports, military bases, etc. may cause interference.
- Electrical wires, utilities, cables, etc. may create interference if too close.

HOW DO I INTERPRET THE CURRENT WIND READINGS?

- **NOW Wind Speed** - is the highest current wind speed at the last record. (31 seconds)
- **1 Hr. Top Speed** – is the highest wind speed reading in the past hour.
- **Compass Rose:**
 - The Compass Rose displays the cardinal directions with visual indicators.
 - The large diamond on the rose indicates the wind direction.
 - The smaller triangles should be display next to the big triangle to create more emphasis to the direction and let the user know that the direction variates constantly.
- **Wind Speed Trend Indicators:**
 - The Wind Speed Trend Indicator shows trends in wind speed over the past 60 minutes.
 - The Trend Arrows will update every 15 minutes based on the “Now” Wind Speed readings from the past 60 minutes.

HELP ME UNDERSTAND THE WIND HISTORY READINGS.

In addition to the one hour history which is constantly shown on the station, you can view wind speed history at 24 hours, 7 days, current month, and current year.

Press and release the WIND button to toggle through the Wind Speed History times.

- **24 Hour Wind Speed** – Shows the top speed in the past 24 hours from the last record. This is a rolling 24 hour period and not a set midnight to midnight reading. This means it updates each hour to show you the past 24 hours.
- **7 Days** - Shows the top speed in the past 7 days from the last record. This is a rolling 7 day period, not a Monday through Sunday record. Updates at midnight each day.
- **Month** – Shows top wind speed for the current month. Record is from the first day of the month to the last day of the month. When in the middle of the month, it will show the readings from the first day of the month to the last full day. Example: If today is the 15th of the month, the top speed is from the 1st to the 14th. After midnight, the 15th will be included.
Note: Press and release the PLUS (+) button to view up to 11 previous months or history.
- **Year** – Shows top wind speed for the current year. January 1, through December 31st.

HOW DO I RESET THE WIND HISTORY READINGS?

Your wind speed history readings are reset individually.

1. Press and release the WIND button to view the history reading you wish to reset.
2. Hold the MINUS (-) button for 5 seconds to reset that value to current wind speed.
3. Press and release the LIGHT button to exit.

HOW OFTEN DOES MY WIND SENSOR UPDATE?

- Your Breeze Wind Sensor checks for any change in Wind Speed every 31 seconds, with samples every 3 seconds within that 31 seconds.

Note:

The Breeze Pro Sensor will operate accurately at temperatures down to -40F. However, the solar panel needs to be exposed to maximum sunlight and clear of snow to maintain the internal super capacitor charge for severe cold weather operation. To extend operation during low sunlight and extreme cold the transmission interval will be reduced.

HOW OFTEN DOES MY TEMP/HUMIDITY SENSOR UPDATE?

- Your Wind/TH Sensor checks for any change every 31 seconds.

HOW DO I VIEW MY HI AND LO TEMPERATURE/HUMIDITY READINGS?

Your high and low temperature and humidity readings are recorded with time and date of occurrence. Each time a new high or low reading is recorded, that reading with time and date of occurrence will show.

To view your HI | LO records, simply press and release the TEMP button.

Viewing order:

- Outdoor HI Temperature
- Outdoor LO Temperature
- Outdoor HI Humidity
- Outdoor LO Humidity
- Indoor HI Temperature
- Indoor LO Temperature
- Indoor HI Humidity
- Indoor LO Humidity

- Feels Like HI
- Feels Like LO
- Dew Point

Note: Dew Point does not have a time/date of occurrence.

HOW DO I RESET THE TEMPERATURE/HUMIDITY READINGS?

Your temperature and humidity readings are reset individually.

1. Press and release the TEMP button to view the reading you wish to reset.
2. Hold the MINUS (-) button for 5 seconds to reset individual temperature or humidity value to current temperature, humidity, time and date.
3. Press and release the LIGHT button to exit.

WHAT IS FEELS LIKE AND DEW POINT TEMPERATURE?

Feels Like temperature indicates both Wind Chill and Heat index on stations with wind speed

- **Feels Like Temperature shows Wind Chill:** When the temperature is *below 50°F*, and generally a 5 mph sustained wind speed, the Feels like Temperature is showing Wind Chill.
- **Feels Like temperature shows Heat Index:** When the temperature is *above 80°F*, the Feels like temperature is showing the Heat Index.
- **Feels Like temperature shows Current Temperature:** When temperature is between 51°F and 80°F, the Feels like temperature will *remain the same* as the outdoor temperature regardless of humidity or wind speed.

HOW DO I SET ALERTS?

Set Alerts:

1. Hold the ALERTS button 2 seconds to enter Alert Settings. (Wind Alert Icon and ALERT OFF will show for selected area)
2. Press and release the + or – button to turn alert ON
3. When the alert is ON, the alert value is flashing. Use the + or – buttons to set.
4. Hold the + or – buttons to scroll quickly.
5. Press and release ALERTS button to move to next item.
6. Leave an alert OFF (disarmed) and press the ALERTS button to skip setting that alert value
7. The alert icon will show when the alert is active.
8. When armed alert value is reached, station will beep 5 times each minute, until out of alert range. (1 second beep once, sound for 5 seconds, wait 55 seconds and then repeat began to ring for 5 seconds.)
9. The flashing Alert Icon will indicate if it is a LO or HI alert.
10. Press any button to stop the temp alert sound. The alert icon will flash while value is in alert range.

Alert Setting Order:

- High Wind Speed Value 0-111.8 (0-180kph)
- 24 hour Rainfall (Will only show if rain sensor is connected)
- Outdoor LO Temperature ON/OFF

- Outdoor LO Temperature Value -40°F-140°F (-40°C-60°C)
- Outdoor HI Temperature ON/OFF
- Outdoor HI Temperature Value -40°F-140°F (-40°C-60°C)
- Outdoor LO Humidity ON/OFF
- Outdoor LO Humidity Value 10%RH-99%RH
- Outdoor HI Humidity ON/OFF
- Outdoor HI Humidity Value 10%RH-99%RH
- Indoor LO Temperature ON/OFF
- Indoor LO Temperature Value 32°F- 99°F (0°C-50°C)
- Indoor HI Temperature ON/OFF
- Indoor HI Temperature Value 32°F- 99°F (0°C-50°C)
- Indoor LO Humidity ON/OFF
- Indoor LO Humidity Value 10%RH-99%RH
- Indoor HI Humidity ON/OFF
- Indoor HI Humidity Value 10%RH-99%RH

Sounding 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 it is a LO or HI alert.
- Press any button to stop the temp alert sound. The alert icon will flash while value is in alert range.

HOW DO I VIEW INDOOR TEMPERATURE/HUMIDITY?

Indoor Temperature/Humidity and Outdoor Temperature/Humidity share the same display area on your station.

- Press and release the PLUS button to change what is displayed.
- Press the PLUS button until you see two circling arrows and your stations will alternate Indoor and Outdoor readings every 5 seconds.

FULL WEEKDAY OR CALENDAR DISPLAY?

- When Time/Date is displayed, press the SET button to toggle between Full Weekday or Calendar to display.

TIME: DOES THIS STATION HAVE ATOMIC TIME?

- No, this station has manual set time.

HOW DO I MANUALLY SET THE TIME?

1. Hold the **SET** button 2 seconds to enter settings mode.

2. Press the **+** or **-** button to adjust the flashing values.
3. Hold the **+** or **-** button to adjust quickly.
4. Press the **SET** button to confirm adjustments and move to the next item.
5. Press the **LIGHT** button at any time to exit.

Settings Order:

- Greeting HELLO SETUP TIME (In default language)
- Language (English, Spanish, French, German)
- 12HR/24HR
- Hour
- Minute
- Year
- Month
- Date
- Month/Date or Date/Month
- Fahrenheit/Celsius
- Wind Speed MPH or KMH
- Wind Direction Letters or Degrees
- Rain Inches or Millimeters
- THANK YOU

Full Program Menu:

1. **On Power Up the Greeting will show each screen for 2 seconds. Then ENGLISH** will show. Press the **+** or **-** button to select ESPAÑOL, FRANCAIS, or DEUTSCH for weekday language.
2. Press SET button move to 12/24 hour time. **12/24 HOUR FORMAT** will show. 12HR flashes. Press the **+** or **-** button to turn select 24 hour time format.
3. Press SET to confirm and move to the hour. **HOUR** will show. The hour flashes. Press the **+** or **-** button to choose the hour.
4. Press SET to confirm and move to the minutes. The **MINUTES** will show. Minutes flash. Press the **+** or **-** button to choose the minutes.
5. Press SET to confirm and move to the year. The **YEAR** will show. **2019** will flash. Press the **+** or **-** button to change the year.
6. Press SET to confirm and move to the month. The **MONTH** will show. The Month will flash. Press the **+** or **-** button to change the month.
7. Press SET to confirm and move to the date. **DATE** will show. Date will flash. Press the **+** or **-** button to change the date.
8. Press SET to confirm and move to the Month/Date or Date/Month. **MONTH/DATE** will show. Press the **+** or **-** button to change to DATE/Month.
9. Press SET to confirm and move to the temperature unit. **FAHRENHEIT** will show. °F will flash. Press the **+** or **-** button if you prefer °C (Celsius).
10. Press SET to confirm and move to Wind Speed units. **WIND SPEED** will show. **MPH** will flash. Press the **+** or **-** button to select KMH.
11. Press SET to confirm and move to the wind direction. **DIRECTION** will show. **Wind Direction Letters** will flash. Press the **+** or **-** button to select Wind Direction Degrees.

12. Press SET to confirm and move to the rain units. **INCH** will show. Press the + or - button to select MILLIMETER.
13. Press SET to confirm. THANK YOU shows for 2 seconds, then exit the setting menu.

OTHER WEATHER STATION FEATURES

BACKLIGHT: DOES THIS STATION HAVE A BACKLIGHT?

Yes, your station has a backlight with 5 levels of intensity.

- Press and release the LIGHT button to adjust the backlight intensity or to turn it off.
- Intensity levels: 0% (OFF) | 1.5% | 20% | 50% | 100%

WHAT IS AUTO DIM?

You can set your backlight to automatically dim to level 1 at a set hour for sleeping, then automatically return to full brightness when you wake.

Set Auto Dim (Hour only):

1. Hold the LIGHT button 2 seconds to enter dimmer set mode. AUTO DIM OFF will show.
2. Press the + or – buttons to turn dimmer (ON). AUTO DIM ON will show.
3. Press the LIGHT button to select start time (Hour) for dimmer. AUTO DIM START TIME and the hour will flash.
4. Press the + or – buttons to change the hour for the dimmer to be low light level.
5. Press the LIGHT button to select start time for dimmer to be on High light level. AUTO DIM STOP TIME and the hour will flash.
6. Press the + or – buttons to change the hour for the dimmer to be high light level.
7. Press the LIGHT button to confirm exit.

Note: Hold LIGHT button at any time to exit dimmer settings.

CAN I OPERATE MY STATION ON BATTERY POWER ONLY?

- No, the power cord is required for your sensors to update.

BATTERY: WHAT DO THE BATTERY ICONS MEAN?

- Low battery by Indoor Temperature, replace batteries in the station
- Low battery by Wind, replace batteries in the Wind/TH sensor.
- Low Battery by Rain, replace batteries in Optional Rain sensor.

WEEKDAY: HOW DO I CORRECT THE DAY OF THE WEEK?

- The day of the week will set when the Year, Month, and Date are set. If your day of the week is incorrect, yet the month and date are correct, please go the program menu and check the YEAR setting.

DOES THIS STATION HAVE 12 HOUR AND 24 HOUR TIME OPTIONS?

- Yes, you can select 12 hour or 24 hour time format in the [program menu](#).

FORECAST ICONS: WHAT DO THE FORECAST ICONS MEAN?

The forecast icons predict weather condition over the next 12-hours based on the change of atmospheric pressure with about 70-75% accuracy. As weather conditions cannot be 100% correctly forecasted, we are not responsible for any loss caused by an incorrect forecast.

Forecast Icons for standalone station:

- Sunny
- Partly Sunny
- Cloudy
- Rain
- T-Storm
- Snow

Note: The “snow” icon appears when the temperature is below 32°F (0°C) and the forecast is rainy or stormy.

FACTORY RESET: HOW DO I FACTORY RESET MY STATION?

1. Hold the LIGHT and ALERTS button together for 3 seconds to Factory Reset station.
2. This will return station to „out of the box“ condition. All history and setting will be lost.
3. Station will search for all sensors.

WHY DOESN'T THE TEMPERATURE/HUMIDITY READINGS ON MY STATION MATCH THE WEATHER REPORT?

- Your temperature and humidity readings are from your sensor at your location. Your local reporting station can be miles away so readings will differ.

TEMP ACCURACY: WHY DOES MY THERMO-HYGRO SENSOR READ INACCURATELY?

- The thermo-hygro sensor reads the environment. Since your Temperature/Humidity readings come from the Wind/TH sensor they may occasionally be inaccurate if the sunlight hits the sensor.
- If this is a common occurrence you can purchase an TX141TH-BV3 sensor and replace the Temperature/Humidity Reading from the Wind/TH sensor.

HOW TO REPLACE THE TH READING FROM THE WIND TH SENSOR WITH AN TX141TH-BV3?

The new Wind Speed, Wind Direction Sensor with Temperature/Humidity may cause inaccurate temperature readings in some locations. Because of this, you have the option to remove the TH sensor reading (from the TX145WSDTH) and adding an additional TH sensor to read in the OUTDOOR area of the display.

1. From normal time display; Press the MINUS button -Outdoor Temp/Humidity will flash.
2. Hold the MINUS button 5 seconds to delete Temp Humidity reading only (From WIND/TH or TX141THB-v3 sensor). Station will search for Temp Humidity reading (from any sensor).
3. Press TX button on the add-on sensor to force a signal.

Note: If the Display could not receive signal from TX141THB-v3 in the 3 mins, the Display will accept the Wind/TH sensor as the Outdoor sensor instead. With such, in case the user decides to switch back from TX141THB-v3 to Wind/TH, there is still a way.

Note: The Outdoor Sensor icon will only show when the Outdoor temperature/humidity reading is coming from the add-on TH sensor. Only 1 TH reading can show.

WHAT DOES A READING OF “HI” OR “LO” MEAN?

- If your outdoor temperature reading shows “HI” or “LO”, check that your batteries are good.
- Overpowered or underpowered batteries can cause this reading.
- If batteries are good, replace the outdoor sensor.
- If your temperature is fine but your humidity is reading “HI” or “LO” or dashes, your humidity may be below 10% Relative Humidity. Your sensor does not read below 10% humidity.

TEMP INTERMITTANT: WHY DOES MY TEMP/HUMIDITY READING COME AND GO?

- RF (radio frequency) communication may come and go occasionally. This can be normal in some environments (e.g. moister climates).
- If a sensor goes out, please wait 2-4 hours for it to reconnect on its own. Please be patient – these stations can reconnect on, after many hours out.
- RF (radio frequency) communication is not always 100% on. Certain temporary conditions can cause it to go out for a time (e.g. 100% humidity).

If a miss happens:

- If sensor loses connection to the station for any reason, the station will show dashes after 30 minutes.
- The station will search for 5 minutes every hour to reconnect with sensor.
- Be sure you have good batteries. Manually search for your sensor.

Try this:

- Bring your sensor within 10 feet of your station and make sure it is connected to the station.
- After 15 minutes move the sensor into the next room with a wall between the sensor and the station for 1 hour.
- If there is no loss of signal in that hour, move the sensor just outside.
- Continue moving the sensor back to its original location.
- If you lose connection, look for sources of interference.

HOW DO I CHANGE BETWEEN FAHRENHEIT AND CELSIUS?

- On your sensor, open the battery cover and press the F/C button. This will change the temperature display on the sensor only.
- On your station enter the program menu to select Fahrenheit or Celsius temperature display on the station.

CAN I ADD RAIN TO THIS STATION?

- Yes. The TX145R rain sensor (sold separately) may be added to this station.

Add Rain Sensor:

1. Insert 2 “AA” batteries into your TX145R rain sensor.
2. Hold the RAIN button to view 24 hour Rain in place of Time on your station.
3. In Rain Mode, Hold the RAIN button again to search for the rain sensor.

Rain History:

When you have successfully added a rain sensor, you may view Rain History Readings. Press and release the RAIN button to view:

- **1 HOUR:** Last one hour rain fall (12 consecutive 5 minutes rainfall accumulated total).
Example: current time is 6:49, 1HR rain is accumulated total between 5:50 to 6:49. Updates every 5 minutes.
- **24 HOURS:** Based on past 24 hours accumulated rain total. At each full hour, 1 hour rainfall is recorded. This is a running total.
- **7 DAYS:** Accumulated last 7 consecutive 24HR rain. At each day 0:00, 24HR rain is recorded. Not a subject to the calendar. Be sure time is set.
- **MONTH: Current Month.** Ex: January 1-January 31. At the first month calendar day 0:00, month rain is reset to 0. Accumulated rain from 1st of xx (month) to current day xx (month). Current month will show in date area.
Note: Press and release the HISTORY button to view MONTH Rainfall History records. Press and release the PLUS (+) button to toggle through the past 12 monthly history readings. **Must press HISTORY button** first to toggle monthly rainfall readings.

- **YEAR: Current year** January 1-December 31 total. Example: current is date is Nov. 10, 2018. Year rain is Jan 1, 2018 –Oct 31, 2018 month totals, plus the current month (Nov 1-10) rain. Current Year will show in time display.
- **TOTAL:** Total rainfall since powered on or reset.

Reset Rain History: While viewing readings, hold the MINUS button to reset.

HOW DO I VIEW MY TIME/DATE?

- When you add a Rain Sensor and switch to Rain mode, it will replace the Time/Date display.
- To return to Time/Date being display simply hold the RAIN & SET button together.

WHY ARE MY WIND CUPS NOT SPINNING?

- Check for debris or ice preventing cups from moving.
- Check mounting location. Look for obstructions that prevent the wind from reaching the sensor.
- In most cases, the wind sensor needs to be 4-6ft above the highest point on the roof in order to clear nearby obstructions and read accurately.
- A 50-foot clearance in all directions is best.
- Push down firmly on the center of the cups to reseal them.
- Cups are replaceable.

CAN I REPLACE MY WIND CUPS?

Occasionally, a bad storm with hail or debris that will damage your wind cups. These are easily replaced.

Replace wind cups:

1. Loosen the screw on side of cups
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.

WIND READING 0.00: WHY DO I ONLY SEE 0.00 FOR WIND SPEED?

The 0.00 means your wind sensor is connected to your station.

- Check that the cups spin freely. Something may be preventing movement.
- Are your wind cups unbroken? After a storm it is good to check this.

WIND DASHES: WHY ARE THERE DASHES FOR WIND READINGS?

Dashes indicate the connection is lost between your station and the wind sensor.

- My first thought is always to check that my batteries are good. If it has been working and now is not, low batteries are the most common connection problem.
- Next, check your distance, resistance and interference. If everything was working previously at the same location, this is likely not the issue. However sometimes there is new growth on trees or bushes that cause another barrier. Radio Frequency (RF) signal does not travel well through foliage due to the moisture content.
- Occasionally adding a new wireless electronic device to the home will cross the signal path for the sensor. If this occurs, try moving your station a few feet or turning the station 90 degrees for a better angle to receive the sensor signal.
- Hold the WIND button to search for the sensor.
- If you regain connection while the sensor is mounted, great. If you do not regain connection, bring the sensor within 10 feet of the station and search again.

HOW DO I CHARGE THE WIND SENSOR?

Your sensor comes fully charged. Be sure to remove the Isolation Tab from the battery and move the ON/OFF switch to ON. If your sensor is not receiving full sunlight on the solar panel for several days, the signal may weaken or fail.

To recharge the battery:

1. Place wind sensor with solar panel in the full sun.
2. Is signal is dashes, turn sensor OFF for 24 hours to allow the battery to charge.
3. After 24 hours turn sensor on and allow 10 minutes to reconnect to station.
4. If possible, place sensor in an area where the solar panel can receive full sun.

WIND/TEMP INTERMITTANT: WHY DO MY READINGS COME AND GO?

- RF (radio frequency) communication may come and go occasionally. This can be normal in some environments (e.g. moister climates).
- If a sensor goes out, please wait 2-4 hours for it to reconnect on its own. Please be patient – these stations can reconnect on, after many hours out.
- RF (radio frequency) communication is not always 100% on. Certain temporary conditions can cause it to go out for a time (e.g. 100% humidity).
- Check that your sensor is receiving full sun on the solar panel.

If a miss happens:

- If your wind sensor loses connection to the station for any reason, the station will show dashes after 30 minutes.
- The station will search for 5 minutes every hour to reconnect with wind sensor.

Try this:

- Bring your wind sensor within 10 feet of your station and make sure it is connected to the station.
- After 15 minutes move the wind sensor into the next room with a wall between the sensor and the station for 1 hour.
- If there is no loss of signal in that hour, move the wind sensor just outside.
- Continue moving the wind sensor back to its original location.
- If you lose connection, look for sources of interference.

WIND ACCURACY: WHY IS MY WIND SPEED INACCURATE?

- What are you comparing your wind speed to? Your local reporting station is miles from your location and should not be used for comparison.
- Check the unit of measure (MPH, or KMH).
- Check to see if your station receives the same repetitive wind speed recording from the sensor multiple times.
- Check that the cups turn freely.
- Check for obstructions that prevent clear wind flow to the cups.
- Check mounting. In most cases, the wind sensor needs to be 6 feet or more above the highest point on the roof in order to clear nearby obstructions and read accurately. A 50-foot clearance in all directions is best.
- It is helpful to send pictures of the sensor mounting, if you need to contact customer support.