

WS-9215U-IT FAQs

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Batteries

- ✓ Many warranty issues can be resolved with fresh batteries of the appropriate voltage.
- ✓ We suggest name brand Alkaline batteries for weather stations.
- ✓ Use batteries dated at least six years in advance of the current year. Batteries dated earlier than six years from now may still work, but may be unstable in performance.
- ✓ Alkaline batteries manufactured this year will have an expiration date 10 years in the future. Battery technology has improved and batteries will maintain voltage longer in storage. However, the environment the batteries reside in for the 10 years can deplete the power.
- ✓ Good name brand batteries make less noise, which reduces the chance of RF (radio frequency) [interference](#) from the battery compartment.
- ✓ A minimum voltage of 1.48V for each battery is necessary for proper performance.

Weather Station Factory Restart

FACTORY RESTART:

1. Bring the outdoor transmitter in the house and place 5-10 feet from the weather station.
2. Remove batteries from the transmitter and from the weather station.
3. With the power removed, press one of the buttons on the display at least 20 times to clear all memory. Please do this even if the display is blank to remove any random electricity. Verify the display is blank.
4. Let the weather station and transmitter rest without batteries for **15 minutes**. **IMPORTANT:** Failure to allow a weather station to rest for 15 minutes can result in failure to connect with the outdoor transmitter or missing segments on the display.
Note: The instruction manual describes a setup for a new unit that has not had time to build up residual electricity.
5. Use fresh [batteries](#), testing to a minimum of 1.48, on a voltmeter that reads in numbers.
6. Place batteries into the outdoor transmitter first. Observe correct polarity.
7. Install batteries into the weather station according to polarity.
8. Allow the transmitter and weather station to remain 5 feet apart for 15 minutes to establish a strong connection. Do not press buttons at this time. You should see a reading on the outdoor temperature area in the first minute.
9. See the section on [mounting](#) and [distance/resistance/interference](#) for details on mounting the outdoor transmitter.

Outdoor Temperature Transmitter

Compatible Outdoor Transmitters

- ✓ A TX40U-IT outdoor transmitter is compatible with this weather station.

Power Requirements

- ✓ 2-AAA [batteries](#) power the outdoor transmitter.
- ✓ We recommend Alkaline batteries for the transmitter.

Dashes shown for Outdoor Temperature

- ✓ Dashes indicate lost connection.
- ✓ [Batteries](#) often resolve the connection.
- ✓ [Distance/Resistance](#) between the weather station and the transmitter can cause loss of connection.
- ✓ [Reorientation](#) of the weather station 90 degrees towards the outdoor transmitter may provide better reception.
- ✓ Complete a [factory restart](#).

Outdoor Temperature Changes Constantly

- ✓ You may have an additional [compatible](#) outdoor transmitter within range.
- ✓ Occasionally a neighbor will have a compatible outdoor transmitter that is within [range](#).

Inaccurate Outdoor Temperature Reading

- ✓ The outdoor transmitter reads the environment. When mounted inside the home it will read inside temperature.
- ✓ When the transmitter reads high during the day but not at night it is a [positioning](#) problem.
- ✓ **Side-by-side test:** Bring the outdoor transmitter in the house and place it next to the weather station for 2 hours.
- ✓ Compare indoor and outdoor temperature. The temperatures should be within 4 degrees to be within tolerance.
- ✓ If the transmitter reads correctly when next to the weather station then try a different location outside.
- ✓ Look for heat sources such as sunlight, door or window frames, or reflected heat.

Intermittent Outdoor Temperature

- ✓ RF (radio frequency) communication may come and go occasionally. This can be normal in some environments (e.g. moister climates). If transmitter signal is lost, please wait 2-4 hours for the signal to reconnect on its own.
- ✓ Move the outdoor transmitter to a closer location.
- ✓ Check [Channels](#): Confirm that the channel selected on the outdoor transmitter matches the channel shown on the Weather Station.
- ✓ **Freezer test:** Confirm the Weather Station is reading the correct outdoor transmitter. Place the transmitter in the freezer for an hour and watch the temperature drop on the Weather Station.
- ✓ **Indoor distance test:** Please complete the Restart with transmitter and Weather Station 5-10 feet apart and inside to establish a strong connection.

- ✓ After 15 minutes if there is a reading in the outdoor temperature area, move the transmitter to another room with one wall between the transmitter and the Weather Station. Observe to see if the temperature remains on consistently for 1-hour.
- ✓ If the temperature remains while in the house then it is likely a [distance/resistance](#) issue. Move the transmitter to different locations outside to find a location where the temperature reading will hold.
- ✓ [Distance/Resistance](#) can cause loss of transmitter signal.
- ✓ Check [Batteries](#).

Outdoor Temperature Shows OFL

- ✓ OFL stands for Outside Factory Limits.
- ✓ The outdoor transmitter is sending a signal and the weather station is receiving the signal.
- ✓ Check [Batteries](#). Overpowered or underpowered batteries can cause this reading.
- ✓ Replace outdoor transmitter.

Outdoor transmitter fell. It no longer works

- ✓ An outdoor transmitter that fell into a puddle or other standing water or snow may have water damage.
- ✓ Transmitters are water resistant, not waterproof.
- ✓ A fall can shock the transmitter or the [batteries](#) in the transmitter.
- ✓ Batteries that have fallen on a hard surface may be damaged and unable to function properly.
- ✓ Complete a [Restart](#) with fresh batteries.

Outdoor Transmitter Drains Batteries Quickly

- ✓ Test a new set of Alkaline batteries. Write down the date of installation and the voltage of the batteries.
- ✓ When the batteries fail, please note the date and voltage again. This is helpful in determining the problem.
- ✓ Check the [distance](#) and [resistance](#) between the transmitter and weather station.
- ✓ Transmitters at the end of the range may work while batteries are fresh but not after they drain a bit.
- ✓ Check for leaking [batteries](#), which may damage the transmitter.
- ✓ Battery life is over 12 months when using reputable battery brands for both Alkaline and Lithium batteries.

Fahrenheit/Celsius

- ✓ Enter the [program menu](#) to change the temperature reading from Fahrenheit to Celsius.

MIN/MAX Temperature Readings

- ✓ VIEW INDOOR MIN/MAX: Press and release the INDOOR/RESET button to view Indoor Minimum, Maximum and current temperature.

- ✓ VIEW OUTDOOR MIN/MAX: Press and release the OUTDOOR button to view Outdoor Minimum, Maximum and current temperature.
- ✓ RESET MIN/MAX: Hold the INDOOR/RESET button for 6 seconds to reset both indoor and outdoor min/max values.

Mounting/Positioning Outdoor Transmitter

- ✓ Place the outdoor transmitter and the weather station in the desired shaded locations, and wait approximately 1-hour before permanently mounting the transmitter to ensure that there is proper reception.
- ✓ Mount outdoor temperature transmitters vertically and under an overhang.
- ✓ Protect the outdoor transmitter from standing rain or snow, and from the overhead sun, which can cause it to read incorrectly. Generally, mounting under an eave or deck rail works well.
- ✓ Construct a small roof or box for the transmitter if you do not have an overhang. Please be sure the box has vents.
- ✓ Outdoor transmitters are water resistant but not water proof.
- ✓ Mount the transmitter on the North side to prevent sun from causing incorrect readings.
- ✓ Mount at least 6 feet in the air for a strong signal.
- ✓ Avoid more than one wall between the transmitter and the weather station.
- ✓ Do not mount near electrical wires, transmitting antennas or other items that will interfere with the signal.
- ✓ RF (radio frequency) signals do not travel well through moisture or dirt.
- ✓ Do not mount the transmitter on a metal fence. This significantly reduces the effective range.

MOUNT

- ✓ Remove the mounting bracket from the remote temperature transmitter.
- ✓ Place the mounting bracket over the desired location (wall or table).
- ✓ Through the screw holes of the bracket, mark the mounting surface with a pencil.
- ✓ Screw mounting bracket onto the mounting surface. Ensure that the screws are flush with the bracket.
- ✓ Insert the remote temperature transmitter into the bracket.

Note: Do not mounting with adhesive tape as it may fail.

Position Weather Station

- ✓ The weather station has a pull out stand to sit on a desk or table.
- ✓ Choose a location 6 feet or more from electronics such as cordless phones, gaming systems, televisions, microwaves, routers, baby monitors, etc., which can prevent signal reception.
- ✓ Place within range of the outdoor transmitter.
- ✓ Be aware of electrical wires and plumbing within a wall. This will interfere with signal reception.
- ✓ The maximum transmitting range in open air is 200-feet (60 meters).
- ✓ Obstacles such as walls, windows, stucco, concrete, and large metal objects can reduce the range.

Distance/Resistance/Interference

Distance:

- ✓ The maximum transmitting range in open air is over 200-feet (60 meters) between the outdoor transmitter and the weather station.
- ✓ Consider what obstacles are in the signal path between the weather station and the transmitter.
- ✓ Consider the distance the weather station is located away from other electronic in the home.

Resistance:

- ✓ Obstacles such as walls, windows, stucco, concrete, and large metal objects can reduce the range.
- ✓ When considering the distance between the transmitter and the Weather Station (200 feet open air) cut that distance in half for each wall, window, tree, bush or other obstruction in the signal path.
- ✓ Closer is better.
- ✓ Do not mount the transmitter on a metal fence. This significantly reduces the effective range.

Interference:

- ✓ Consider obstacles in the signal path between the transmitter and the weather station.
- ✓ Sometime a simple relocation of the transmitter or the weather station will correct the interference issue.
- ✓ Windows can reflect the radio signal.
- ✓ Metal will absorb the RF (radio frequency) signal.
- ✓ Stucco has a metal mesh backing that can absorb the signal.
- ✓ Transmitting antennas from (ham radios, emergency dispatch centers, airports, military bases etc.)
- ✓ Electrical wires, cable connections etc. may cause interference.
- ✓ Vegetation is full of moisture and reduces signal.
- ✓ Trying to receive a signal through a hill (dirt) is difficult.

Weather Station

12-Hour or 24-Hour Time Format

- ✓ Displays the time in 12-hour or 24-hour format
- ✓ Default is 12-hour time.
- ✓ Use the [Program Menu](#) to switch time formats.

Power Requirements

- ✓ 2-AA alkaline [batteries](#) power this Weather Station.

Dashes, OFL or Stuck Indoor Temperature/Humidity

- ✓ This is generally a power related issue.
- ✓ [Batteries](#) may be overpowered or underpowered. Remove batteries from Weather Station.
- ✓ Press any button 20 times. Leave the Weather Station unpowered for 1-2 hours.

- ✓ Install fresh alkaline batteries with correct polarity.
- ✓ If the indoor temperature is still dashes or OFL, the Weather Station may need replacement.

Inaccurate Indoor Temperature Reading

- ✓ Side-by-side test: Bring the outdoor transmitter in the house and place it next to the Weather Station for 2 hours.
- ✓ Compare indoor and outdoor temperature. The temperature should be within 4 degrees to be within tolerance.
- ✓ Look for heat sources such as sunlight, door or window frames, or reflected heat of cold.

Time is off by hours

- ✓ This weather station has manual set time.
- ✓ Use the [program menu](#) to set time.

Forecast icons inaccurate

The weather forecasting feature is 75% accurate. The weather forecast is based solely upon the change of air pressure over time. In areas where the weather is not affected by the change of air pressure, this feature will be less accurate.

Weather Icons

Three possible weather icons will show in the LCD:

Sunny—indicates that the weather is expected to improve (not that the weather will be sunny).

Sun with Clouds—indicates that the weather is expected to be fair (not that the weather will be sunny with clouds).

Clouds with Rain—indicates that the weather is expected to get worse (not that the weather will be rainy).

The weather icons change when the unit detects a change in air pressure. The icons change in order, from "sunny" to "partly sunny" to "cloudy" or the reverse. If the symbols do not change then the weather has not changed, or the change has been slow and gradual.

Manually Set Time/Date: Program Menu

There are four buttons: SET, +, INDOOR/RESET and OUTDOOR. The SET button will move through the program menu and the PLUS button will change values. To begin hold the SET button for about 5 seconds.

- ✓ 12/24 HOUR: 12h or 24h will flash. Press the PLUS button to select 12-hour or 24-hour time. Press and release the SET button to continue.
- ✓ HOUR: The Hour will flash. Press the PLUS button to adjust the hour. Press and release the SET button to continue.
- ✓ MINUTES: The Minutes will flash. Press the PLUS button to adjust the minutes. Press and release the SET button to continue.
- ✓ NOTE: The calendar settings will not show on the display except in the program menu. Setting the calendar items is optional.

- ✓ YEAR: The Year will flash. Press the PLUS button to adjust the year. Press and release the SET button to continue.
- ✓ MONTH: The Month will flash. Press the PLUS button to adjust the month. Press and release the SET button to continue.
- ✓ DATE: The Date will flash. Press the PLUS button to adjust the Date. Press and release the SET button to continue.
- ✓ F/C: °F or °C will flash. Press the PLUS button to select Fahrenheit or Celsius. Press and release the SET button to confirm and exit.

Weather Station has missing segments

- ✓ This is generally a power related issue.
- ✓ [Batteries](#) may be overpowered or underpowered. Remove batteries from weather station.
- ✓ Press any button 20 times. Leave the Weather Station unpowered for 1-2 hours.
- ✓ Install fresh alkaline batteries with correct polarity.

Weather Station is dim

- ✓ Most weather stations have a gray background. Place the weather station at eye level. Is it still dim?
- ✓ Weather stations that sit in the sunlight can develop a cloudy film over time.
- ✓ This is generally a power related issue.
- ✓ [Batteries](#) may be overpowered or underpowered. Remove batteries from weather station.
- ✓ Press any button 20 times. Leave the weather station unpowered for 1-2 hours.
- ✓ Install fresh alkaline batteries with correct polarity.

Weather Station has distorted display

- ✓ On a brand new weather station, check for thin plastic films of printed scratch guard that may be on the LCD screen of the weather station. This thin piece of plastic has printed numbers for store displays. This can make the weather station display appear "frozen".
- ✓ With all power removed the weather station should be blank.
- ✓ If numbers still appear, please check for scratch guard.
- ✓ Check that the [batteries](#) are installed according to polarity markings.
- ✓ This is generally a power related issue.
- ✓ [Batteries](#) may be overpowered or underpowered. Remove batteries from weather station for 2 hours.

Weather Station display is frozen

- ✓ On a brand new weather station, check for thin plastic films of printed scratch guard that may be on the LCD screen of the weather station. This thin piece of plastic has printed numbers for store displays. This can make the weather station display appear "frozen".
- ✓ With all power removed the weather station should be blank.
- ✓ If numbers still appear, please check for scratch guard.
- ✓ Check that the [batteries](#) are installed according to polarity markings.
- ✓ This is generally a power related issue.

- ✓ [Batteries](#) may be overpowered or underpowered. Remove batteries from weather station for 2 hours.

Weather Station is blank: No letters, numbers or dashed lines

- ✓ Check that the batteries are installed correctly.
- ✓ [Batteries](#) may be overpowered or underpowered. Remove batteries from weather station for 2 hours.

Weather Station drains batteries quickly

- ✓ Test a new set of Alkaline batteries. Write down the date of installation and the voltage of the batteries.
- ✓ When the batteries fail, please note the date and voltage again. This is helpful in determining the problem.
- ✓ Check for leaking batteries, which may damage the weather station.
- ✓ Battery life is over 12 months when using reputable battery brands.