

## WS-9006U

### OUTDOOR TEMPERATURE

#### Q: What sensors are compatible with this station?

A: The TX43U (433MHz) is the only sensor compatible with this station.

#### Q: Outdoor temperature shows dashes.

A: Dashes means the connection is lost between the display and the outdoor sensor. Batteries are the most common problem.

A: Distance/Resistance can cause loss of sensor signal. Avoid more than one wall, window, and tree etc., between the display and the sensor. UV coated windows may actually reflect the signal. Stucco walls will absorb the signal.

A: It may be helpful to orient the Display 90 degrees towards the sensor for better reception.

A: Relocate the sensor or the display for better reception. It is best when the sensor is mounted at least 6 feet in the air.

A: Complete a restart for display with the temperature/humidity sensor:

- **RESTART DISTANCE:** For best results please bring the outdoor sensor in the house and place 5 feet from the display unit.
- **REMOVE POWER:** Remove batteries from the sensor and batteries from the display.
- **DISCHARGE ELECTRICITY:** 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.
- **UNPOWERED FOR 15 MINUTES:** It is important with most of our displays to remain without power for at least 15 minutes.
- **NOTE:** Failure to allow a display to rest for 15 minutes can result in failure to connect with the outdoor sensor or missing segment on the display. The instruction manual describes a setup for a new unit that has not had time to build up residual electricity.
- **BATTERIES:** Please be sure the units are using fresh batteries testing to a minimum of 1.48, on a voltmeter that reads in numbers.
- **SENSOR FIRST:** Place batteries into the outdoor sensor first. Make sure they are installed according to the diagrams in the battery compartment.
- **DISPLAY NEXT:** Install batteries into the display according to the diagram in the battery compartment.
- **CONNECTION:** Allow the sensor and display to remain 5 feet apart for 15 minutes to establish a strong connection. Do not press buttons at this time. The unit should see a reading on the outdoor temperature area in the first minute.

#### Q: Intermittent temperature.

A: **Freezer test-** Confirm the display is reading the sensor. Place the sensor in the freezer for an hour and watch the temperature drop on the display unit.

A: **Indoor Distance Test:** Please complete the Restart with sensor and display 5 feet apart. After 15 minutes if there is a reading in the outdoor temperature area, move the sensor to another

room with one wall between the sensor and the display. Observe to see if the temperature remains on consistently. If the temperature remains while in the house then it is likely a distance/resistance issue outside. Please move the sensor to a different location outside to see if the temperature will hold.

**A: Distance/Resistance** can cause loss of sensor signal. Avoid more than one wall, window, and tree etc., between the display and the sensor. UV coated windows may actually reflect the signal. Stucco walls will absorb the signal.

**A: Check batteries.** This is our primary warranty issue.

**Q: Outdoor Temperature shows OFL (outside factory limits).**

**A:** Check batteries. This is our primary warranty issue. Over powered or underpowered batteries can cause this reading.

**A:** Replace sensor.

**Q: Outdoor sensor drains batteries in a short time.**

**A:** Batteries should last a year or more, if batteries are good when inserted. If the batteries in the sensor are not lasting that long, please try these tasks:

- 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.

**A:** Complete the Restart and confirm that everything is working after a battery change.

**A:** Battery leakage may cause a sensor to drain batteries quickly.

**Q: Outdoor temperature is inaccurate.**

**A: Location:** the outdoor sensor will read its environment. If the sensor is in the house the sensor will read the house temperature in the outdoor temperature area.

**A: Side-by-side test.** Bring the sensor in the house and place it next to the display for 2 hours. Compare indoor and outdoor temperature and/or humidity. The temperatures should be within four degrees to be considered within tolerance.

**A:** If the sensor reads correctly while next to the display then try a different location outside. Look for heat sources such as sunlight, door or window frames, or reflected heat. Check for the same things on whatever the unit is comparing the reading to.

**Q: Sensor fell and no longer works.**

**A:** First, try the restart for the station. Often a sensor was just shocked and may reconnect with a proper restart.

**A:** A replacement may be purchased at [www.greatbigoutlet.com](http://www.greatbigoutlet.com).

**Q: Change from Fahrenheit to Celsius.**

**A:** Press and release the CF/SET button once to switch from Fahrenheit to Celsius.

**Q: Mounting the outdoor temperature sensor.**

**A:** Temperature sensors should always be mounted vertically and under a bit of an overhang. They should be protected from standing rain or snow, and from the overhead sun, which can cause it to read incorrectly. Generally, under an eave or deck rail works well. Outdoor sensors are water resistant but not water proof.

**A:** It is best to mount the sensor with screws as tape can fail causing the sensor to fall. Tape is great for positioning until the best location for the sensor to maintain contact with the display is determined.

**A:** Distance/Resistance can cause loss of sensor signal. Avoid having more than 1 wall, window, tree etc., between the display and the sensor. UV coated windows may actually reflect the signal. Stucco walls will absorb the signal.

**A:** Avoid placing the display within 6 feet of electronics such as microwave, router, or cordless phones.

**A:** If possible, mount on the North side of the building to prevent sun from causing incorrect readings.

**Q: MIN/MAX is different than current temperature and I have reset the min/max information.**

**A:** This station has one-degree resolution on the min/max temperatures. This means that when reset, the minimum and the maximum temperatures can be up to 1 degree different from the current temperature

**DISPLAY INFORMATION:**

**Q: PROGRAM MENU:**

- **12/24-HOUR TIME:** Hold the CF/SET button until 12hr or 24hr flashes in the lower right hand corner. Press and release the MIX/MAX/+ button to switch between 12-hour and 24-hour time. Press the CF/SET button once to continue.
- **HOUR:** The Hour will flash. Press and release the MIX/MAX/+ button to change the hour. Press the CF/SET button once to continue.
- **MINUTES:** The minutes will flash. Press and release the MIX/MAX/+ button to change the minutes.
- **NOTE:** Hold the MIX/MAX/+ button to move quickly through the numbers. Press CF/SET once and the unit are done.

**Q: View/Reset Min/Max Records:**

**A: MIN/MAX RECORDING:**

**VIEW MIN/MAX:** Press the MIN/MAX/+ button view indoor and outdoor MAX, MIN and Current temperature.

**A: MANUAL RESET:** Hold the MIN/MAX/+ button for 3 seconds to reset all MIN/MAX readings to current temperatures.

**Q: Display is blank (no dashed lines, numbers or letters).**

**A:** This is often a power related issue. Remove batteries from display. Press any button 20 times to discharge random electricity. Install fresh batteries with correct polarity. If the display does not show lines or numbers within 30 seconds, the display may need to be replaced.

**Q: Display has missing segments (all or part of a number or letter are missing).**

**A:** This is generally a power related issue. Batteries may be overpowered or underpowered. Remove batteries from display. Leave the batteries out of the display for 1-2 hours. Install fresh batteries with correct polarity. After 15 minutes, program as usual. If the display still has missing segments the display may need to be replaced.

**Q: Display is frozen (display does not change).**

**A:** If this is a new display, please be sure the printed scratch guard has been removed from the face of the display. This thin piece of plastic has printed numbers for store displays. With all power removed the display should be blank. If numbers still appear, please check for scratch guard.

**A:** If the display has been working properly for a while, and now the display is frozen, remove batteries from display. Leave the batteries out of the display for 1-2 hours. Install fresh batteries with correct polarity. After 15 minutes, program as usual. If the display still freezes up, please note the following:

- Does it freeze at certain times of day or night?
- Does it freeze when certain buttons are pressed?

**Q: Display looks garbled (everything is hard to read and looks overwritten).**

**A:** If this is a new display, please be sure the printed scratch guard has been removed from the face of the display. This thin piece of plastic has printed numbers for store displays. With all power removed the display should be blank. If numbers still appear, please check for scratch guard.

**A:** This is generally a power related issue. Batteries may be overpowered or underpowered. Remove batteries from display. Press any button 20 times. Leave the batteries out of the display for 1-2 hours. Install fresh batteries with correct polarity. After 15 minutes, program as usual. If the display is still garbled; the display may need to be replaced.

**Q: The display is dim.**

**A:** Please note if the display is dim at every angle. Many displays are designed to sit at an angle on the table. The display generally has a gray background.

**A:** If the display is left in the sun, it may develop a cloudy discoloration.

**A:** This can be a power related issue. Batteries may be overpowered or underpowered. Remove batteries from display. Leave the batteries out of the display for 1-2 hours. Install fresh batteries with correct polarity. If the display is still dim, the display may need to be replaced.

**Q: Display drains batteries quickly.**

**A:** Batteries should last a good 1-year plus, if batteries are good when inserted. If the batteries in the display are not lasting that long, please try these tasks:

- 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.

**Q: Indoor Temperature is showing dashes or OFL (outside factory limits).**

**A:** This is generally a power related issues. Batteries may be overpowered or underpowered. Remove batteries from display. Press any button 20 times. Leave the batteries out of the display for 1-2 hours. Install fresh batteries with correct polarity. If the indoor temperature is still dashes or OFL, the display may need to be replaced.

**Q: Indoor Temperature is inaccurate.**

**A:** Bring the outdoor sensor in the house and place next (within 1 foot) to the display for 2-hours. The indoor and outdoor temperature readings should be within 4 degrees to be within tolerance.

**A:** Look for sources of heat or cold that may affect the display. Consider vents, window and doorframes, sunlight, etc.