

W8611V2 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 clock.

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GENERAL INFORMATION

BATTERIES: WHAT DO I NEED TO KNOW ABOUT BATTERIES?

- Good fresh batteries are important for best performance in your sensors and as backup in your clock.
- Batteries with an expiration date of 2025, were manufactured in 2015.
- We recommend batteries with an expiration date no more than 6 years in advance of the current year for best performance.
- A minimum voltage of 1.48 v per battery is required for best performance.
- Lithium batteries may be used in outdoor sensors. Alkaline batteries for the clock.

BATTERIES: WHAT DO THE BATTERY ICONS MEAN?

- When Battery Indicator shows in the outdoor area, replace batteries in your Outdoor Sensor.
- When Battery Indicator shows next to your Time or the Indoor area, replace batteries in your Clock.

SENSOR AND CLOCK

Your W8611v2 clock comes with:

TX141v3 Outdoor sensor 433MHz RF

Transmission Range 330 feet (100 meters) open air.

WHAT ARE THE POWER REQUIREMENTS?

TX141v3: 2-AA batteries

W8611v2: 2-AA batteries

SETUP: HOW DO I SETUP MY CLOCK?

1. Insert 2-AA batteries into your Outdoor Sensor.
2. Insert 2-AA batteries into your clock.
3. Adjust time and date settings on your display.
4. Once the Outdoor Sensor is reading to each of your displays, place it outside in a shaded location.

MOUNTING: WHERE DO I POSITION MY SENSOR & CLOCK?

- Watch sensor mounting video: http://bit.ly/TH_SensorMounting
- Place your outdoor sensor at least 6 feet off the ground.
- For accurate temperature readings your sensor needs to be shaded from the sun and in a well ventilated area. Trapped moisture will cause inaccurate readings.
- Mount your sensor vertically to allow moisture to drain out the bottom.
- Preferred location is on a north facing wall under an eave or deck rail.
- Avoid placing near a metal roof that will cause it to read high on sunny days.
- Avoid other sources of heat such as soffit vents, and window or door frames.
- Maximum transmission distance from your thermos-hygro sensor to your clock, in open air is 330 feet (100 meters).
- Insert the mounting screw through the front of the transmitter and into the wall. Tighten the screw to snug (do not over tighten).

POSITION CLOCK

Your clock is designed for placement on a desk or countertop, or to hang on a wall.

- Best reception occurs when only one wall is between your clock and your sensor outside.
- Position you clock six feet from other electronics and wireless devices. If you suspect RF (radio frequency) interference, simply move your weather clock a few feet.
- For best WWVB Atomic Time Signal reception, have the front or back of the clock facing Colorado, so the widest part of the reception antenna is available for the Atomic Time Signal.
- Place on an exterior wall if possible.

WHAT IS DISTANCE | RESISTANCE | INTERFERENCE?

Distance:

- The maximum transmitting range in open air is over 330 feet (100 meters) between your sensor and your clock.
- Consider the signal path from your clock to your sensor as a straight line.
- Consider the distance the clock 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 your sensor and your clock.
- Simple relocation of your sensor or the clock 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.

TIME: DOES THIS CLOCK HAVE ATOMIC TIME?

- Yes it does. The clock will only search for the atomic signal at UTC 7:00, 8:00, 9:00, 10:00, and 11:00.
- If there is no WWVB reception, the clock will search for the atomic time signal every 2 hours until the WWVB time is received.
- The atomic time signal icon will flash while searching. The tower icon will be solid when it has connected.
- From normal time display, press and release the **SET** button to search for the WWVB time signal.

WILL THIS CLOCK CHANGE FOR DAYLIGHT SAVING TIME?

To best accommodate all of our customers, this clock has three unique Daylight Saving Time (DST) settings:

- **AUTOMATIC DST ON**- Clock gains 1 hour in spring and loses 1 hour in the fall (default setting)
- **ALWAYS DST OFF**- Clock remains in Standard Time all year long
- **ALWAYS DST ON**- Clock remains in Daylight Saving Time all year long

Note: When you change batteries in the clock, you will need to select Time Zone and DST settings again.

HOW DO I MANUALLY SET THE TIME?

It is best to press one button at a time when setting your clock.

1. Hold the SET button to enter the Settings Menu.
2. Press the + or - button to adjust the values. Hold to adjust quickly.
3. Press the SET button to confirm and move to the next item.
4. Press the SNOOZE button to exit.

Settings order:

- Language (English, Español, Français)
- Beep ON/OFF
- Atomic ON/OFF
- DST (Daylight Saving Time)
 - AUTOMATIC DST ON
 - ALWAYS DST OFF
 - ALWAYS DST ON
- Time Zone
- 12/24 Hour Format
- Hour
- Minutes
- Year
- Month
- Date
- Temperature Fahrenheit/Celsius

TIME ZONES

ATLANTIC
EASTERN
CENTRAL
MOUNTAIN
PACIFIC
ALASKA
HAWAII

To begin:

1. Hold the SET button for 2 seconds to enter setting mode. **ENGLISH** will flash. Press the + or - button to select language.
2. Press SET to confirm and move to beep sound ON/OFF. **BEEP ON** will show. ON flashes. Press the + or - button to turn the button beep sound off.
3. Press SET to confirm and move to the atomic time ON/OFF. **ATOMIC ON** will show. ON flashes. Press the + or - button if you do not want Atomic Time signal (OFF).
4. Press SET to confirm and move to the Daylight Saving Indicator. **AUTOMATIC DST ON** will show. ON flashes. Press the + or - button to turn ALWAYS DST OFF if you do not observe Daylight Saving Time changes, or to ALWAYS DST ON if your state has selected year around DST.
5. Press SET to confirm and move to the Time Zone. **EASTERN** will flash. Press the + or - button to select your time zone.
6. Press SET to confirm and move to the 12/24 hour time format. **FORMAT** will show and **12Hr** will flash. Press the + or - button to select 24 hour time.
7. Press SET to confirm and move to the hour. The **HOUR** will flash. Press the + or - button to choose the hour.
8. Press SET to confirm and move to the minutes. The **MINUTES** will flash. Press the + or - button to choose the minutes.
9. Press SET to confirm and move to the year. The **YEAR** will show. **2019** will flash. Press the + or - button to change the year.
10. Press SET to confirm and move to the month. The **MONTH** will show. Month number will flash. Press the + or - button to change the month.
11. Press SET to confirm and move to the date. **DATE** will show. Date number will flash. Press the + or - button to change the date.
12. Press SET to confirm and move to the temperature unit. **TEMP °F** will show. °F will flash. Press the + or - button if you prefer °C (Celsius).
13. Press SET to confirm and exit.

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 CLOCK HAVE 12 HOUR AND 24 HOUR TIME OPTIONS?

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

HOW DO I SET THE TIME ALARM?

Set Alarm:

1. Hold the **ALARM** button 3 seconds to enter settings mode.
2. Press the + or - button to adjust the flashing values.
3. Hold the + or - buttons to adjust quickly.
4. Press the **ALARM** button to confirm adjustments and move to the next item.
5. Press the **SNOOZE** button at any time to exit.

HOW DO I ACTIVATE/DEACTIVATE THE ALARM?

- The alarm is active when set.
- From normal time display, press and release the **ALARM** button to deactivate or activate the alarm. The alarm time will show for 2 seconds.
- Alarm icon (bell) will show then active

CAN I SNOOZE THE ALARM?

- When alarm sounds, press the **SNOOZE** button to silence alarm for 10 minutes.
- The snooze icon **Zz** will flash
- Press any button except **SNOOZE** to silence the alarm for 24 hours

WHAT ARE THE PHASES OF THE MOON?

The moon phase is based on the lunar calendar and the year, month and date set. Most Internet moon phase calculations are based on the lunar calendar.

- **Waxing** indicates growing or expanding illumination and happens after a new moon.
- **Waning** indicates decreasing illumination and occurs after a full moon.
- **Crescent** refers to the moon being less than half illuminated. Crescents can be waning or waxing.
- **Gibbous** describes a moon phase when more than half is illuminated. Gibbous can be waxing or waning.
- **New Moon** occurs when the moon is between the earth and sun, so the illuminated portion of the moon is on the back side facing the sun and we cannot see it. After a new moon, the illuminated portion will increase or wax until the full moon occurs.
- **Full Moon** occurs when the earth, moon and sun are in approximate alignment, with the moon and the sun on opposite sides of the earth. The illuminated portion of the moon faces the earth, giving us complete visibility of one side of the entire moon. After a full moon, the illuminated portion will decrease or wane until the new moon occurs.
- **First Quarter** and **Last Quarter** moons occur when the moon is at a 90 degree angle to the earth and sun. We see half of the moon illuminated and the other half is in shadow.

WHY IS THE FULL MOON BLACK?

- The full moon will show all black to best see the moon phase on this clock.
- When compared to a paper Calendar, the moon phases may seem backward.

TROUBLESHOOTING

HOW DO I CHANGE BATTERIES IN MY SENSORS WITHOUT LOSING DATA?

We designed this clock for convenience, so that a simple change of batteries does not lose data or require you to power down your clock.

- When Battery Indicator shows next to the Outdoor Temperature, replace batteries in your Outdoor Sensor.
- Then hold the PLUS (+) button for 3 seconds and your clock will search for your sensor.

FACTORY RESET: HOW DO I FACTORY RESET MY CLOCK?

- Basically this is a great way to return your clock to “out of the box” condition.
- This is more effective than removing all power for clearing out the clock.
- All history records will be removed, so write down anything you want to keep.

To factory reset clock:

1. Bring your sensor in, and place 5-10 feet from both clocks.
2. Remove power from clock and sensor for 15 minutes.
3. With power removed press any button 20 times.
4. Insert batteries into sensor and clock.
5. Allow 15 minutes for them to connect several times.
6. Place sensor back outside.

TEMPERATURE SHOWS “NO”: WHY DOES MY OUTDOOR SENSOR SHOW “NO” ON THE CLOCK?

“NO” indicates the connection is lost between your clock and the outdoor 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 causing 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 clock a few feet or turning the clock 90 degrees for a better angle to receive the sensor signal.
- When you have good batteries, and good location, hold the PLUS (+) button (clock) for three seconds to search for your 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 clock and complete a factory reset.

WHY DOES MY TEMPERATURE READ DASHES ON MY CLOCK?

- Dashes will show in the outdoor temperature area when the clock is searching for the outdoor sensor.
- If the sensor signal is received the temperature value will display.
- If the sensor is not received, the word NO will display.

MY TEMPERATURE READINGS ON MY CLOCK MATCH THE WEATHER REPORT?

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

TEMP ACCURACY: WHY DOES MY OUTDOOR SENSOR READ INCCURATELY?

- The outdoor sensor reads the environment. If your sensor reads high during the day but not at night it is a [mounting](#) problem.
- **Side-by-side test:** Bring the outdoor sensor in the house and place it next to your clock for 2 hours.
- Compare indoor and outdoor temperature. The temperatures should be within 4 degrees to be within tolerance.
- If the sensor reads correctly when next to your clock then try a different location outside.
- Look for heat sources such as sunlight, door or window frames, or reflected heat that may cause inaccurate readings.
- If your temperature is reading low, and location is not an issue, you may have a bad sensor.

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.

TEMPERATURE INTERMITTANT: WHY DOES MY TEMPERATURE 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 clocks 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 clock for any reason, the clock will show NO after 30 minutes.
- The clock will search for 5 minutes every hour to reconnect with sensor.
- Be sure you have good [batteries](#). Manually search for your sensor by holding the PLUS(+) button for three seconds.

Try this:

- Bring your sensor within 10 feet of your clock and make sure it is connected to the clock.
- After 15 minutes move the sensor into the next room with a wall between the sensor and the clock 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](#).

WHY AM I GOING THROUGH BATTERIES QUICKLY?

- Test a new set of [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 sensor.

HOW DO I CHANGE BETWEEN FAHRENHEIT AND CELSIUS?

- On your clock enter the [program menu](#) to select Fahrenheit or Celsius temperature display on the clock