513-1416 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.
We recommend Adobe Reader version 10 or greater available at: http://get.adobe.com/reader

CONTENTS

BATTERIES: WHAT DO I NEED TO KNOW ABOUT BATTERIES?

- Good fresh batteries are important for best performance in your clock.
- Batteries with an expiration date of 2030, were manufactured in 2020.
- We recommend batteries with an expiration date 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.

WHAT ARE THE POWER REQUIREMENTS FOR THIS CLOCK?

513-1416: 2 "AA" batteries.

SETUP: HOW DO I SETUP MY CLOCK?

1. Insert 2 "AA" batteries into your clock.
2. Enter Basic Settings.

HOW DO I MANUALLY SET THE TIME?

IMPORTANT: Only press or hold one button at a time.

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

Settings order:
- Language (ENG, ESP, FRA, DEU)
- Beep ON/OFF
- Atomic ON/OFF
- DST AUTOMATIC/ DST ON/ DST OFF
- Time Zone
- Hour
- Minutes
- Year
- Month
- Date
- Fahrenheit/Celsius

TIME ZONES
ATL
EST
CST
MST
PST
ALA
HAW

Note: If Atomic OFF is selected, skip DST and Time Zone selection, and move straight to the Hour.

Settings Menu
1. Hold the SET button for 2 seconds to enter setting mode. **ENG** will show. Press and release the + or - button to change to another language (ESP, or FRA or DEU). Press and release the SET button to select Beep ON/OFF.
2. **Beep:** ○On ●Off will show. Press and release the + or – button to turn beep sound OFF. Press and release the SET button to move to Atomic Time ON/OFF.
3. Press and release SET to confirm and move to the atomic time ON/OFF. **Atomic:** ●On ○Off will show. ON flashes. Use the + or - button if you do not want Atomic Time signal (OFF).
4. Press and release SET to confirm and move to the Daylight-Saving Indicator. **DST:** ○On ○Off ●Automatic will show. USE the + or - button to Select DST ON (DST all year) or DST OFF (Standard Time all year).
5. Press and release SET to confirm and move to the Time Zone. **EST** will flash. Use the + or - button to select your time zone.
6. Press and release SET to confirm and move to the hour. **HOUR** will flash. Press and release the + or - button to choose the hour.
7. Press and release SET to confirm and move to the minutes. **MINUTES** will flash. Press and release the + or - button to choose the minutes.

8. Press and release SET to confirm and move to the year. **23** will flash. Press and release the + or - button to change the year.
9. Press and release SET to confirm and move to the month. The **M** will show. The Month will flash. Press and release the + or - button to change the month.
10. Press and release SET to confirm and move to the date. **D** will show. Date will flash. Press and release the + or - button to change the date.
11. Press and release SET to confirm and move to the temperature unit. **Temp:** ◉°F ○°C will show. Press and release the + or - button if you prefer Celsius.

Note: After 10 seconds with no button press, the station returns to normal time display.

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

No, this clock only has 12 hour time.

WHAT DO THE DAYLIGHT SAVING TIME (DST) SETTINGS MEAN?

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

TIME: DOES THIS CLOCK HAVE ATOMIC TIME?

Yes: The clock will search for the atomic signal at **power up** and at UTC 7:00, 8:00, 9:00, 10:00, and 11:00.
- If there is no WWVB (60kHz) reception, the clock will search for the atomic time signal every 2 hours until the WWVB time is received.
- The entire Atomic Time Signal Icon (ᵗᵢ) 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 manually search for the WWVB time signal.

Reception:
- The WWVB time signal can be received up to 2,000 miles away from Boulder Colorado. However, due to the nature of the Earth's Ionosphere, reception is very limited during daylight hours. The Radio-controlled display will search for a signal every night when reception is best.
- Allow up to 5 nights for the change from Daylight Savings Time to Standard Time and vice versa to occur, depending on your location and atmospheric conditions.

Loss of WWVB signal, follow these steps:
1. Check for a **Tower Icon** showing on the display near the time. The tower icon indicates successful reception of the WWVB signal in the past 24-hours.
2. Check that the Clock is in the correct **Time Zone**.
3. Check that **ATOMIC** is **ON**. This must be ON to receive a WWVB atomic time signal.
4. Check that the **DST** indicator is **ON**. If the indicator is OFF the clock will not change into or out of Daylight Saving Time.
5. Position clock with front or back facing Fort Collins, Colorado so the widest part of the antenna is positioned to receive.
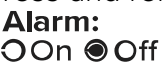
For information about WWVB visit: https://bit.ly/atomic_time

Yes. To set the alarm time

1. Hold the **ALARM** button for 2 seconds to enter settings mode. **◉ On ○ Off** will show.
2. Press and release the **+** or **-** button to adjust the flashing values. Hold the **+** or **-** buttons to adjust quickly.
3. Press and release the **ALARM** button to confirm adjustments and move to the next item.
4. Press and release the **SNOOZE** button at any time to exit.

Deactivate/Activate 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 and **Alarm: ○ On ◉ Off** will show for 2 seconds.
- Alarm icon 🔔 will show when active.

Snooze:
- When the alarm sounds, press and release the SNOOZE button to silence the alarm for 10 minutes.
- The Snooze Icon **Zz** will flash.
- Press and release any button except SNOOZE to silence the alarm for 24 hours.

Note:
1. If no buttons are pressed in a 10 second period, set mode will time out and return to live display mode.
2. Press SNOOZE at any time to save and exit all setting menus.
3. +/- button: Press once to adjust by 1 unit, hold for fast scroll adjustment.
4. Alarm is crescendo sound. When the alarm sounds, it continues for 2 minutes and then shuts off completely.

CAN I DISPLAY THE SECONDS?

Press and release the + (PLUS) button to turn the Seconds display on or off.

CAN I ADD SENSORS?

No. This clock cannot read an outdoor sensor.

WHAT ARE THE ARROWS BY THE INDOOR TEMPERATURE?

The temperature (2°F / 1°C) trend indicators update every 15 minutes. The trend reflects changes over the past 1 hour.

UP ARROW: Temperature is rising

LEFT ARROW: Temperature is unchanged

DOWN ARROW: Temperature is falling

FACTORY RESET: HOW DO I FACTORY RESET MY CLOCK?

To factory reset your clock:
1. Remove batteries and press any button 20 times.
2. Leave unpowered for 15 minutes.
3. Reinsert batteries.