L73859 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

GENERAL INFORMATION
BATTERIES: WHAT DO I NEED TO KNOW ABOUT BATTERIES?

- Good fresh batteries are important for best performance in your sensors and in your clock.
- Batteries with an expiration date of 2029, were manufactured in 2019.
- 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 next to the Outdoor section, replace batteries in your Outdoor Sensor.
- When Battery Indicator shows next to your Indoor Temperature, replace batteries in your Clock.

SENSOR AND CLOCK

Your L73859 clock comes with:
TX141-Bv4 Temperature sensor 433MHz RF
Transmission Range 330 feet (100 meters) open air.

WHAT ARE THE POWER REQUIREMENTS?

TX141-Bv4: 2-AA batteries
L73859: 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 clock.
4. Once the Outdoor Sensor is reading to your clock, 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 thermo-hygro 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.
- For accurate humidity readings, avoid placement near vegetation and lakes or other bodies of water when possible.
- 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 flexible placement on a desk or countertop, or it can hang on the wall.
- Position with the front or back facing Ft. Collins Colorado for best Atomic Time Reception.
- Best sensor 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 clock a few feet.

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.

WWVB ATOMIC TIME SIGNAL

- The station 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 station 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.

HOW DO I MANUALLY SET THE TIME?

1. Hold the **SET** 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 **SET** button to confirm adjustments and move to the next item.
5. Press the **SNOOZE** button at any time to exit.

Settings order:
- Language (English, Español, François)
- Beep ON/OFF
- Atomic ON/OFF
- DST ON/OFF
- Time Zone
- 12/24 Hour Format
- Hour
- Minutes
- Year
- Month
- Date
- Temperature Fahrenheit/Celsius

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. **DST ON** will show. ON flashes. Press the + or - button to turn DST OFF if you do not observe Daylight Saving Time changes.
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. **2018** 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.

TIMER

The Timer can be set from 1 minute (minimum) all the way up to 24 Hours (maximum).

Set Timer:
1. Hold the TIMER button for 3 seconds. The hour will begin to flash. Press the + or - button to adjust the Timer hour.
2. Press the TIMER button to confirm, the minutes will then begin to flash. Use the + or - button again to adjust Timer minutes.
3. Press the TIMER button to confirm and begin Timer countdown.

PAUSE/PLAY TIMER:
- While the timer is active press the MINUS (-) button to Pause the timer, press it again to play and continue the current timer.
- While the timer is PAUSED user can toggle between Clock or Timer display with the PLUS (+) button.
- When Timer is PAUSED and clock is displayed the Timer Indicator will show solid without arrows.

START/STOP TIMER:
o Press the TIMER button to start or stop the timer.
o When stopped, Timer returns to last setting. If Timer was set at 45 minutes, when timer is stopped it will return to 45 minutes.

TIMER SOUNDS:
o When Timer reaches "0" you will hear 5 beeps every 15 seconds for up to 1 minute.
o If the TIMER button is **not** pressed, the timer will begin counting up from "0".

TIMER OR CLOCK DISPLAY:
o Press the PLUS (+) button to toggle between Timer Counting Display and Clock Display.
o When Timer is active and Clock is displayed the Timer Indicator will show solid. The Up or Down Arrow will flash.

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.

ACTIVATE/DEACTIVATE ALARM
o The alarm is active when set.
o From normal time display, press and release the ALARM button to deactivate or activate the alarm. The alarm time will show for 2 seconds.
o Alarm icon will show then active.

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

Note: When the alarm sounds, it continues for 2 minute and then shuts off completely.

TROUBLESHOOTING

CHANGING BATTERIES

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

Clock:
1. When Battery Indicator shows next to the Indoor Temperature, replace batteries in your Clock.
2. 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.

Factory Restart:
1. Bring sensor within 5 feet of your clock. Remove batteries from clock and sensor for 15 minutes.
2. With batteries out, press any button on the clock 20 times.
3. After 15 minutes insert fresh batteries into your sensor and into your clock.

DASHES TEMPERATURE

Dashes indicate 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 SENSOR button 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 search again.

WHY DON'T MY TEMPERATURE READINGS ON MY CLOCK MATCH THE WEATHER REPORT?

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

TEMPERATURE ACCURACY

- The 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 temperature 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.
- Overpower or underpowered batteries can cause this reading.
- If batteries are good, replace the outdoor sensor.

TEMPERATURE INTERMITTANT

- 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 dashes 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.