

## TE653ELW – Complete Weather Forecaster

### HOW DO I SET THE TIME ZONE ON MY TE653ELW?

1. Press **MODE** button so that the **Day of the Week** abbreviation is displayed to the right of the time; for example: **pm 2:37tu**
2. Press and hold **UP** arrow button for 3 seconds selecting the desired time zone.
3. Keep holding **UP** button until the desired US time zone (Pacific, Mountain, Central or Eastern) is highlighted on the display's US map, located on the upper right corner from the time.
4. Release the **UP** button. The Time Zone is set.

### HOW OFTEN DOES THE WEATHER FORECAST UPDATE, AND WHAT PERIOD DOES IT COVER?

The weather forecast is updated every 12 hours and covers a period of time from 12 to 24 hours ahead, starting from the first time when the unit has been powered up.

### HOW ACCURATE THE WEATHER FORECAST DISPLAYING ON TE653ELW?

The weather forecast accuracy is 75%.

### WHERE I CAN FIND MY LOCAL ALTITUDE/ELEVATION?

To find out your altitude/elevation and current barometric pressure go to <http://weather.noaa.gov/weather/ccus.html>. Select the area nearest you. The altitude can also be found with a portable GPS receiver or topographical map. Barometric pressure can be obtained from the radio or TV weather programs.

### HOW DO I PROGRAM MY LOCAL ALTITUDE/ELEVATION?

**IMPORTANT: Program your altitude immediately after batteries are installed using control buttons on the back of the main unit:**

- After batteries are inserted into the battery compartment, "**hPA/mBar** " abbreviation will flash in the left lower portion of the main unit's display
- Press **UNIT** button located on the back of the main unit – the word "**METER**" will flash, prompting a selection of the altitude unit in meters or feet
- Select the desired altitude unit by pressing the **UP** or **DOWN** arrow buttons
- Press the **UNIT** button once – the "**32**" number will start flashing prompting an adjustment of your local altitude/elevation.
- Use the **UP** or **DOWN** arrow buttons to increase or decrease the altitude/elevation in 3 feet increments

- Press **PRESSURE/ALTITUDE** button on the back to confirm the entered altitude - the display will change to the **SEA LEVEL** barometric pressure in numerals.

### WHAT IS THE MEANING OF THE PRESSURE BAR GRAPH? IS IT NORMAL THAT THIS BAR GRAPH IS FLASHING?

Yes, this is a normal unit operation. The pressure bar graph shows barometric pressure fluctuations over the past 24 hours. Each bar icon represents 0.06 inHg

### WHAT IS THE EMPTY WINDOW LOCATED BELOW THE MOON PHASE ICON MEANS?

With each press on the **HISTORY** button, this window shows a specific hour, allowing displaying a barometric pressure history from present time to 36 hours back.

### WHAT IS "TEMP ALARM" REPRESENTS?

This is a programmable temperature alarm, allowing you to set the high and low levels for the remote temperature. When any of set levels is reached, the alarm will sound.

### HOW MANY ALARMS CAN BE SET ON MY TE653ELW?

The Complete Weather Forecaster TE653ELW has two time alarms – Weekday alarm (**W**) and Single day alarm(**S**) - and one Ice Warning Alarm (**PRE-AL**).

### HOW TO SET THE TIME ALARM?

1. Press **ALARM** button once to enter into the alarms setting mode - the word "**OFF**" with a letter "**W**" next to it will be displayed (default - weekday alarm)
2. Press and hold **ALARM** button for two seconds - hour digits will flash. Adjust the hour using **UP** or **DOWN** arrow buttons
3. Press **ALARM** button once - the minute digits will flash. Adjust the minutes using **UP** or **DOWN** arrow buttons
4. Press **ALARM** button once again to confirm the settings and the weekday alarm time will be set
5. Set a **Single (S)** day alarm if desired in the same manner

### HOW TO DISABLE THE TIME ALARM?

Press **ALARM** button selecting the alarm you want to disable – an appropriate letter of the selected alarm will appear next to the alarm time. Press **DOWN** arrow button once, so the word "**OFF**" will be displayed. The specific alarm will be disabled and won't activate.

### WHAT IS THE DIFFERENCE BETWEEN THE WEEKDAY (W) AND SINGLE (S) TIME ALARMS?

The **Weekday (W)** alarm is programmed to sound at the set time Mondays through Fridays with "**W**" letter flashing.

The **Single (S)** day alarm is programmed to sound at the set time with “S” letter flashing only for the specific day and will not activate on subsequent days.

### WHAT DOES “PRE-AL” MEAN?

When temperature drops below freezing, programmable **Ice Warning Alarm (PRE-AL)** automatically wakes you up earlier, giving an extra time to get ready.

It programmed to sound before the actual alarm if the remote temperature for Channel one (1) will reach 32°F (0°C) and below. You can set this alarm to 15 to 90 minutes earlier than actual time alarm.

**Ice Warning Alarm (PRE-AL)** can only be set if one or both - **Weekday** or **Single** alarm previously programmed.

### HOW DO I CHANGE A TEMPERATURE UNIT IN MY TE653ELW?

The temperature measurement unit (C° or F°) can be changed only through entering clock setting procedure:

1. Press and hold **MODE** for 3 seconds - the year digit will flash.
2. Press **MODE** once - the month digit will flash. Press **UP** or **DOWN** arrow buttons to select the month.  
If correct month is displayed press **MODE** button once to confirm and move to the date mode selection (date digit will flash)
3. Press **UP** or **DOWN** arrow buttons to select the date.  
If correct date is displayed press **MODE** button once to confirm and move to the hour format selection (“12” digits will flash)
4. Press **UP** or **DOWN** arrow buttons to select the **12** or **24** hour format.  
If the correct hour format is displayed press **MODE** button once to confirm and move to the hour selection (hour digits will flash)
5. Press **UP** or **DOWN** arrow buttons to select the hour  
If correct hour is displayed press **MODE** button once to confirm and move to the minutes selection (minutes digits will flash)
6. Press **UP** or **DOWN** arrow buttons to select the minutes  
If correct minutes are displayed press **MODE** button once to confirm and move to the weekday language selection (weekday language abbreviation “EN” will flash).  
The weekday may be displayed in one of five languages-English, Spanish, French, German or Italian.
7. Press **UP** or **DOWN** arrow buttons to select the weekday language:

“EN” for English, “SP” for Spanish, “FR” for French, “GE” for German, and “IT” for Italian.  
If correct language is displayed press **MODE** button once to confirm and move to the temperature unit selection (“F°” symbol for Fahrenheit will flash)

8. Press **UP** or **DOWN** arrow buttons to select the temperature unit: “F°” for Fahrenheit or “C°” for Celsius.

If correct temperature unit is displayed press **MODE** button once to confirm the setting and exit from clock programming mode.

#### WHERE IS US ATOMIC CLOCK LOCATED?

US Atomic clock is located at Fort Collins outside Boulder, Colorado, and is operated by the US Government

#### WILL MY ATOMIC TIME UNIT WORK IN ALASKA AND HAWAII?

If used in Alaska and Hawaii, the Atomic Time clocks will not receive the RF signal from the US Atomic Clock during the normal daylight hours. The 50kW radio signal transmitted at 60 kHz frequency covers the Continental United States (CONUS) and reaches parts of Alaska and Hawaii during the night-time hours. However, this clock can be set manually if the signal from Boulder, Colorado is not able to reach the locations that geographically are not in the US Atomic Clock Time Signal coverage area.

#### HOW TO DISABLE/ENABLE ATOMIC TIME SIGNAL RECEPTION MANUALLY?

1. Press and hold **UP** and **DOWN** arrow buttons at the same time for 3 seconds and the atomic time radio reception icon located above the seconds will disappear.

2. Press and hold **UP** and **DOWN** arrow buttons at the same time for 3 seconds again enabling atomic time radio receiver. The radio reception icon will start flashing showing that the unit is searching for the atomic time signal.

#### MY TE653ELW DID NOT RECEIVE ATOMIC TIME SIGNAL DURING INITIAL SETUP. HOW THIS CAN BE FIXED?

Please, consider the following when atomic time is not set during the initial setup:

- During night-time hours, atmospheric conditions improve radio signal reception. A single daily reception is sufficient enough to keep the clock accuracy within milliseconds.
- Unit should be positioned 8 feet (2 meters) from interference sources such as a TV, computer, microwave, etc.
- The signal reception is weakened within concrete walls found in basements or office buildings. Place the unit near the window for best reception.

Once the atomic time signal is received, the date and time will be set automatically, and the atomic time reception icon will appear.

Your unit's atomic clock is programmed to search for the atomic time signal daily each hour between 1:00 am and 4:30 am. Once the time signal has been successfully received, the time and date will be updated automatically.

### WHAT SHOULD I DO DURING AN INITIAL PRODUCT SETUP?

Remove the protective plastic screen (if any) from the LCD displays.

Insert the batteries into the **remote sensor first** then insert batteries into the main unit.

**During initial setup in order to work properly, remote sensor must have the batteries installed before the main unit.**

### IF YOU HAVE MORE THAN ONE REMOTE SENSOR SET EACH SENSOR TO A DIFFERENT CHANNEL NUMBER.

#### DO NOT PRESS ANY BUTTONS FOR 6 MINUTES.

During this time the main unit and remote sensor will start to communicate to each other and the main unit will show both - indoor and remote readings.

### MY TE653ELW NO LONGER SHOWS AN OUTDOOR/REMOTE TEMPERATURE AND HUMIDITY.WHAT CAN I DO TO FIX THIS?

If the main unit display mode for the remote sensor reading shows dashes (- - -), press and hold the **DOWN** arrow button for 3-4 seconds to begin a new signal search. As soon as the signal search icon will start flashing above the remote channel number release the **DOWN** arrow button.

If the signal isn't received within two minutes, please make sure that:

- Make sure that the red light is flashing from the remote sensor's LED indicator every 45-47 seconds
- The remote sensor is in its proper location.
- The distance between main unit and remote sensor is not over 100 feet (30 meters).
- The path between units is clear of obstacles. Shorten the distance if necessary.
- Fresh batteries are installed correctly in both remote sensor and main unit.
- If outdoor temperature reached 32°F and lower we recommend using lithium batteries versus alkaline
- Batteries were inserted into the remote unit first and the main unit next.

If there is still no communication, please perform the following steps:

- Bring the main unit and remote sensor close together.

- Remove the four (4) small screws from the back of the remote sensor with a small Phillips screwdriver and open the battery compartment.
- Remove the batteries from the battery compartment and reinstall them in the same manner. Remote sensor LED indicator will flash showing transmission of the signal.
- Remove the batteries from the main unit and reinstall them in the same manner.
- The remote temperature and humidity appeared on the main unit's display will show that transmission is being received successfully.

## WHERE DO I PLACE A REMOTE SENSOR?

Place the remote sensor in the area you intent to measure environmental conditions.

**Example:** If you wish measuring an outdoor environment conditions, place the remote sensor outdoors. If you wish measuring an attic environment conditions, place the remote sensor to the attic, and etc.

Outdoors the remote sensor should be placed in a dryer, shaded area. Fog and mist will not harm the remote sensor but direct rain must be avoided.

TE653ELW receiver (main unit) has operating range of up to 100 feet in an open area. So sensor should be placed within this operating range. Any walls or other obstacles will reduce this distance.

## HOW TO ACTIVATE THE BACKLIGHT?

You can activate the backlight for a short time period by pressing **SNOOZE/LIGHT** button on the top.

## HOW LONG DOES THE BACKLIGHT STAY ON?

The backlight will stay on for 5-6 seconds if the **LIGHT/SNOOZE** button is pressed.

## HOW LONG THE BATTERIES LAST IN THE UNIT?

The average battery life in the device is 12 months.


## WHAT DOES THE COMFORT LEVEL INDICARTOR MEAN?

The Complete Weather Forecaster is capable of detecting and displaying present comfort levels for the surrounding environment. The environmental comfort level is detected, interpreted and displayed on the main unit's display based on the combination of the current indoor temperature and humidity readings.


There are following comfort levels may be displayed: **COMFORT** (comfortable); **WET** (wet) and **DRY** (dry)

Indicator displayed	Temperature Range	Humidity Range	Shows current condition
<b>COMFORT</b>	20°C to 25°C (68°F to 77°F)	40%RH- 70%RH	Ideal for both relative humidity and temperature
<b>WET</b>	-5°C to 50°C (23°F to 122°F)	OVER 70%RH	Contains excess moisture
<b>DRY</b>	-5°C to 50°C (23°F to 122°F)	Below 40%RH	Contains inadequate moisture

#### HOW TO ENTER INTO AUTO-SCANNING MODE?

Press and hold the **CHANNEL** button for 2 seconds – the icon “” will appear on the main unit display to the left of the **COMFORT LEVEL** indicator.

All three remote channels data will be displayed one-by one automatically with 11 seconds delay in the following sequence: Channel 1, Channel 2 and Channel 3.

To exit from scanning mode, press and hold the **CHANNEL** button for 2 seconds, and the icon “” will disappear, returning the main unit display to the default display mode showing just single channel information.