

TN924W – Professional Weather Station with Public Alert

MY TN924W WEATHER RADIO DISPLAY INDICATES “CHECK OP’ OR “SIGNAL LOSS” IN THE WHAT DO I DO?

“CHECK OP” message may appear by 2 reasons: one – is due to NOAA signal loss, another – if the radio programming was not done correctly or not finished completely.

1. The easiest way to improve radio reception is to move the main display unit closer to a window. This should improve the signal strength and radio reception.

However, in some locations due to mountains or conditions that can impact reception you may need to consider an auxiliary external antenna. Radio Shack has a variety of WX (Weather) Band antennas to choose from. For example, you might consider the Magnet-Mount CB Antenna 21-801 with WX (Weather) Band.

2. Make sure when during the radio programming you selected “SINGLE” or “MULTIPLE” location that an appropriate county (counties) with FIPS codes are entered.

WHILE PROGRAMMING THE WATCHES/WARNINGS/ADVISORIES I NOTED THAT WARNINGS SETING SKIP TORNADO WARNING. THERE IS A TORNADO WATCH SETTING. WHY IT IS MISSING FROM THE SETTINGS?

There are several NOAA events that are mandatory for the weather radio to be enabled at all times. The TORNADO WARNING is one of these events, so it cannot be disabled or deleted. This is why you do not see this event on the list of the events that can be deleted or changed.

MY TN924W WEATHER RADIO RECEIVED WEEKLY TEST AND IT STAYED ON THE DISPLAY. HOW CAN I CLEAR THIS MESSAGE FROM THE DISPLAY?

The user cannot manually clear any of the messages received from NOAA. The duration of each message is programmed into the message and it will stay on the display as long as it is programmed for. To learn more about the NOAA events and NOAA operations please go to NOAA website using this link: <http://www.nws.noaa.gov/nwr/indexnw.htm>

MY NOAA RECEPTION IS NOT GOOD. WHAT CAN I DO?

First check to see if your county is covered by a NWR station. If you are definitely NOT within range of a NWR station, see the letter on network expansion prospects.

The range for NWR reception is about 40 miles from the transmitter. However, many things affect reception. Large bodies of salt water tend to greatly increase range. Forests, deserts, and hills/mountains tend to greatly reduce reception. Reception in cities may be reduced due to steel and concrete, while higher elevations will enhance the signal. Reception can vary from room to room. Mineral deposits in the ground can affect your radio signal. Moving even a few feet can a weak signal to a strong one.

It may help to be near a window facing the direction of the station, away from other electronic equipment, and on an upper level. You may need to hook your weather radio up to an external antenna.

You can buy an external antenna from an electronics store or make your own. The antenna will be similar to the type you use for your stereo: a two-conductor piece of wire attached to a wall and stretched up the wall toward the ceiling. When it nears the ceiling, split the wire conductors to form a "T". Where the wire splits into its horizontal section, each section should be at least 18 inches long. You can also tap into your regular outside or inside TV antenna.

For specific reception questions, contact your local National Weather Service office. The NWR station listing includes the programming office for each station, with links to the programming office's home page via a regional map.

HOW DO I SET THE TIME ZONE ON MY TN924W?

When selecting your location in the Clock and Alarm mode, either by entering the code of the closest city, or entering your specific location longitude and latitude, all data, including the Time Zone, is set automatically.

HOW TO SET THE TIME ALARM?

In the Clock and Alarm window, select the desired alarm by pressing the ALARM /CHART button. Then press and hold the ALARM/CHART button until the alarm time digits will flash. Set the desired alarm time (hours, minutes) using the UP or DOWN arrow buttons on the back of the unit. Then press ALARM/CHART button to exit from the programming mode and confirm the setting.

HOW TO DISABLE THE TIME ALARM?

In the Clock and Alarm window press ALARM/CHART button selecting the alarm you want to disable – an appropriate letter of the selected alarm will appear next to the alarm time. Press UP arrow button once, so the word "OFF" will be displayed. Now that specific alarm is disabled and won't activate.

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 TN924W?

The weather forecast accuracy is 70%.

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 in the main unit as soon as batteries are installed.

After batteries are inserted into the battery compartment, "inHg" abbreviation will flash in Pressure and Weather forecast window of the main unit display.

- Press UP or DOWN arrow buttons selecting the pressure unit in metrics or imperial units.
- Press SET button to confirm the selection and move to the altitude selection mode with "feet" flashing.
- Select the desired altitude unit by pressing the back "UP" or "DOWN" button
- Press SET button again – "33" number will start flashing showing default altitude
- Use the UP or DOWN arrow buttons to increase or decrease the altitude
- Press SET button once to confirm the entered altitude - after a 2-3 second delay the display will change to the SEA LEVEL barometric pressure adjusted to the set altitude 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 39 hours back.

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.

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?

- Press and hold UP arrow button for 3 seconds and the atomic time radio reception icon located above the seconds will disappear.
- Press and hold UP arrow button 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 TN924W 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.

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

IF YOU HAVE MORE THAN ONE REMOTE TEMPERATURE AND HUMIDITY 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 sensors will start to communicate to each other and the main unit will show both - indoor and remote readings.

MY TN924W NO LONGER SHOWS AN OUTDOOR/REMOTE TEMPERATURE AND HUMIDITY, WIND SPEED& WIND DIRECTION OR RAINFALL. WHAT CAN I DO TO FIX THIS?

If the main unit displays dashes (- -) in any remote parameter window 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 during this signal search, please make sure that:

- The remote sensor is in its proper location and within specified operating range
- 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 batteries from the sensor battery compartment and reinstall them in the same manner.
- Disconnect main unit from AC/DC adapter and remove the batteries from the battery compartment. Reinstall the batteries into the main unit and re-connect it to the wall power outlet through the AC/DC adapter.

- Wait for about 6 minutes. The remote readings appeared on the main unit's display will show that sensor transmission is being received successfully.

WHERE DO I PLACE A REMOTE TEMPERATURE AND HUMIDITY SENSOR?

Place the remote temperature & humidity sensors in the area you intent to measure environment conditions.

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

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

The remote temperature & humidity sensor has operating range of up to 328 feet in an open area. 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 LIGHT/SNOOZE button on the top or continuously, if the AC/DC adapter is connected to the wall power outlet.

HOW LONG DOES THE BACKLIGHT STAY ON?

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

WHAT DOES THE LIGHT SENSOR DO?

The TE924W is equipped with the light sensor which detects the environmental light conditions. At the light conditions lower than 100 LUX, the LCD will light up automatically if AC adapter is connected and the light sensor is set to AUTO position. The light sensor feature also can be turned ON or OFF. The light sensor sensitivity can be adjusted to the high or low sensitivity when the AUTO position is selected.

HOW LONG THE BATTERIES LAST IN THE MAIN UNIT?

The average battery life in the device is 7 days if unit will work only on the batteries Keep TN924W connected to the wall power outlet through AC/DC adapter provided.

WHAT DOES THE COMFORT LEVEL INDICARTOR MEAN?


The Weather Station 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
COMFORT	20°C to 25°C (68°F to 77°F)	40%RH- 70%RH	Ideal for both relative humidity and temperature
WET	-5°C to 50°C (23°F to 122°F)	OVER 70%RH	Contains excess moisture
DRY	-5°C to 50°C (23°F to 122°F)	Below 40%RH	Contains inadequate moisture

HOW TO ACTIVATE AN 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.

MY TN924W MAIN UNIT DISPLAY SHOWS DIFFERENT TEMPERATURE READING FROM THE TEMPERATURE ON THE REMOTE SENSOR. WHAT IS THE REASON FOR THAT?

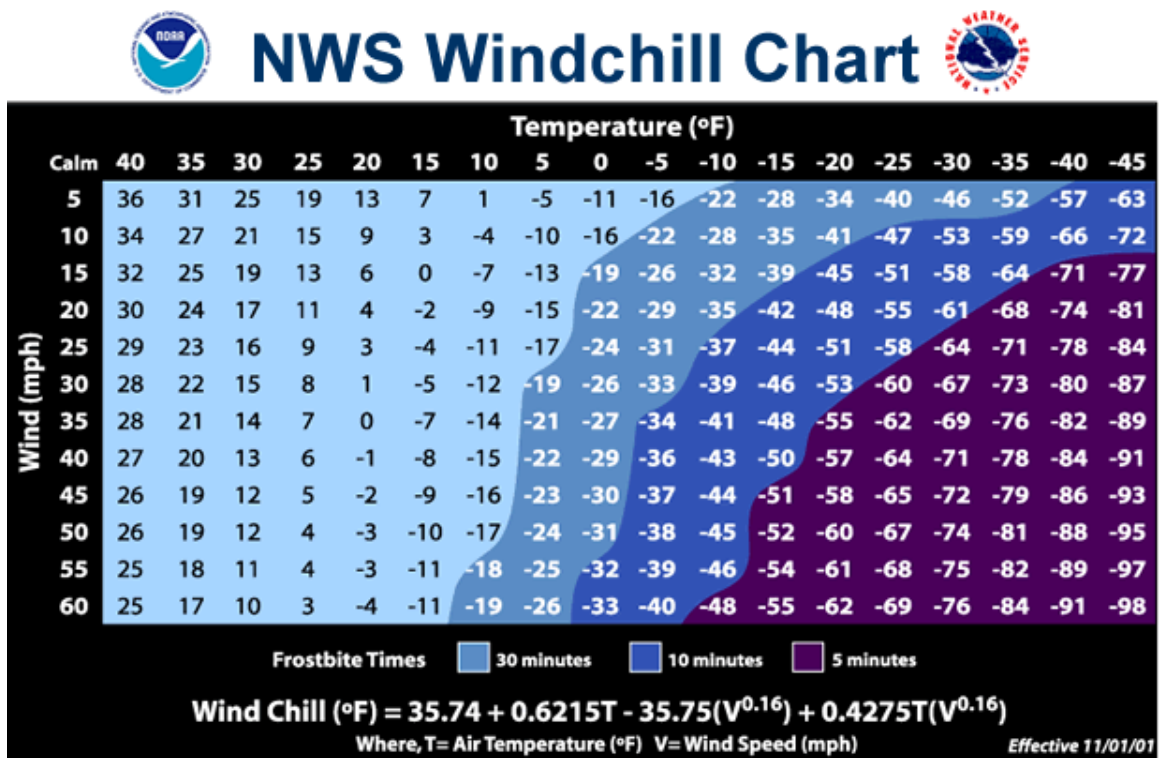
It is possible that you selected DEW POINT TEMPERATURE mode in your TN924W temperature and humidity window display. Look for a “DEW” abbreviation below temperature reading.

To return to the current channel temperature and humidity mode simply press SET button until the abbreviation “DEW” will disappear and temperature and humidity will match remote sensor readings.

MY TN924W MAIN UNIT DISPLAY SHOWS WIND CHILL READING HIGHER THAN THE TEMPERATURE READING AT THE PLACE OF ANEMOMETER. WHAT IS THE REASON FOR THAT?

The weather station can display wind chill temperature that is higher than air temperature measured at the place of anemometer. According to NOAA, an actual wind chill temperature can be measured and calculated only at 40 degrees of Fahrenheit and below.

Please see wind chill index table and formula for calculation of the wind chill below from NOAA website:



WHY DATA ON MY PC IS DIFFERENT FROM THE DATA ON THE MAIN DISPLAY?

This means that the software memory contains a default or previous weather information. In order to clear the default information from the memory, open the software, then click on the FILE menu and select the CLEAR ALL RECORDS AND EXIT option. Then select CONFIRM in the next appeared window – the software will close and all previous records will be erased.

I WOULD LIKE USING WEATHER STATION DATA IN OTHER APPLICATIONS OR MY WEBSITE. HOW CAN I EXPORT IT?

Weather Capture does not export Excel files directly. We do provide an automatic copy of your

weather data in a file called RECORDS.TXT. It is a comma separated variable formatted file that you can export into Excel with the following steps:

Load Excel and select open (*.txt) files: from the C Drive of your computer go to C:\Program Files\WeatherCapture

Copy and paste a file RECORDS.TXT to Desktop

Go to Desktop

Right click RECORDS.TXT and open file with EXCEL

Save the file in XLS format

Remark: Applicable to Windows XP only (not Vista)