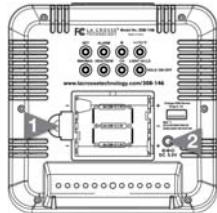# LA CROSSE® TECHNOLOGY

REMOTE SENSOR Temperature/Humidity
Model:TX142TH

The Wireless Color Forecast Station features atomic time, weather forecast, indoor and outdoor temperature/humidity as well as heat index and dew point, on a stylish, colorful, and easy to read display. Use the integrated USB charging port to charge your smartphone, camera or other device when the forecast station operates on A/C power. Wireless transmission range of over 200 feet (60 meters) in open air, from transmitter to forecast station.

Wireless Color Forecast Station

Setup Instructions Step-by-Step

Step 1: (optional battery use)
- Remove battery cover from the forecast station. Slide tab to right and pull out to remove the cover.
- Insert 3 new AA batteries (not included) into the back of the forecast station. Observe the correct polarity (see marking inside the battery compartment).
- The forecast station will light up and display, indoor temperature, humidity and channel 1.
- **Do Not Mix Old and New Batteries**
- **Do Not Mix Alkaline, Standard, Lithium or Rechargeable Batteries**

Step 2:
- Insert the 5-volt A/C power adapter into the designated area on the back of the forecast station.
- Plug the A/C power adapter into a wall outlet for continuous backlight display (ON/OFF), and dimmer feature. Backlight will illuminate for 8 seconds when using only battery power with a press/release of the SNOOZE/LIGHT button.
IMPORTANT: When operating on A/C power, to avoid interference, the backlight and USB charge port will turn off while the forecast station searches for the WWVB signal. The backlight and USB charge port resume after a 2-10 minute search.

Step 3:
- Keep the transmitter within 10 feet of the forecast station.
- Remove battery cover from transmitter. Slide the battery cover down and lift off the back.
- Insert 2 new AA batteries into the transmitter. Observe the correct polarity.
- The CH switch is set to Channel 1 by default. Confirm channel 1 is selected.
- Within 3 minutes, the forecast station will beep and then display readings in the Outdoor temperature area on the LCD.
  Note: Use Alkaline batteries (or Lithium for temperatures below -20°F /-28.8°C).

Troubleshooting

- If the forecast station does not display the outdoor temperature after 3 minutes, remove the A/C power adapter and all batteries from both units and start the setup process again.
- If the outdoor temperature does not show up after a second attempt, please slide open the battery cover of the outdoor transmitter to reveal the TX button. Push

down on the TX button for 3 seconds to send a wireless signal to the forecast station.
- For optimal 433 MHz signal reception, the outdoor transmitter should be placed within 200 feet (60 meters) from the indoor forecast station.

WWVB Radio-Controlled Time

The NIST radio station, WWVB, is located in Ft. Collins, Colorado and transmits the exact time signal continuously throughout the United States at 60 kHz. The signal can be received up to 2,000 miles away through the internal antenna in the Wireless Color Forecast Station. However, due to the nature of the Earth's Ionosphere, reception is very limited during daylight hours. The Wireless Color Forecast Station will search for a signal every night when reception is best. The WWVB radio station derives its signal from the NIST Atomic Clock in Boulder, Colorado.

WWVB reception icon with full signal strength will appear on screen if the reception of atomic time is successful.
- The tower icon will show solid when the display has received the WWVB signal.
- No tower icon displayed. The display was unable to receive a signal at this time.
- Reposition the display for better signal reception or try again at bedtime.
- The display will start searching at UTC: 07:00 and if no reception on the first attempt they will try again at 08:00, 09:00 and 10:00. Each attempt will be at least 2 minutes and the most will be 10 minutes.
- If there is no signal or too much interference, the receiver will only be on for 2 minutes.
- If the signal is good, it may catch a signal in ABOUT 2-3 minutes.
- If the signal is marginal, it will try to catch a signal for up to 10 minutes.
- **IMPORTANT:** To avoid interference when operating on A/C power, the backlight and USB charge port will turn off while the forecast station searches for the WWVB signal. The backlight and USB charge port resume after a 2-10 minute search which occurs during the late night or early morning hours.
Note: In case the forecast station is not able to detect the WWVB-signal (disturbances, transmitting distance, etc.), the time may be manually set.

Button	Press and Release Functions	Hold 3-5 seconds
SET	Move through program menu Confirm setting	Enter program menu, set time, date, etc.
ALARM	View Alarm Activate/Deactivate Alarm	Alarm set
+/RCC	1 step forward (setup)	Search for WWVB signal Fast advance (setup)
-/°C/°F	Select temperature in °F/°C 1 step backward (setup)	Fast backward (set)
MIN/MAX	1-time MAX values 2-times MIN values	Resets all MIN / MAX values
HEAT/DEW	1-time Heat Index 2-times Dew Point	
CH	Switch channels (multiple transmitters)	Search for remote transmitter
LIGHT HI/LO HOLD ON/OFF	Dim backlight for night time.	Turn continuous backlight ON or OFF (A/C adapter)
LIGHT/SNOOZE (top)	Activates backlight when using only batteries Trigger snooze alarm	

Program Menu

The SET button will move through the program menu. To change a value use the +/RCC or -/°C/°F buttons.
- **WWVB ON/OFF:** Hold the SET button 5 seconds and **WWVB** and the word **ON** will flash. Press and release the +/RCC or -/°C/°F button to turn this to OFF if you do not wish WWVB reception. Confirm with the SET button and move to the next item.
- **TIME ZONE: EST** will flash. Press and release the +/RCC or -/°C/°F button to select a different Time Zone: AST=Atlantic, EST= Eastern, CST= Central, MST= Mountain, PST= Pacific, AKT= Alaska, HAT=Hawaiian time zone. Confirm with the SET button and move to the next item.
- **DAYLIGHT SAVING TIME: DST** will flash and the word **ON**. Press and release the +/RCC or -/°C/°F button to turn this to OFF if you do not observe DST. Confirm with the SET button and move to the next item.
- **12/24 HOUR TIME: 12H** will flash. Press and release the +/RCC or -/°C/°F button to select 24H. Confirm with the SET button and move to the next item.

- **HOUR:** The **hour** will flash. Press and release the +/RCC or -/°C/°F button to select the correct hour. Confirm with the SET button and move to the next item.
- **MINUTES:** The **minutes** will flash. Press and release the +/RCC or -/°C/°F button to select the correct minutes. Confirm with the SET button and move to the next item.
- **YEAR:** The **year** will flash. Press and release the +/RCC or -/°C/°F button to select the correct year. Confirm with the SET button and move to the next item.
- **MONTH:** The **month** will flash. Press and release the +/RCC or -/°C/°F button to select the correct month. Confirm with the SET button and move to the next item.
- **DATE:** The **date** will flash. Press and release the +/RCC or -/°C/°F button to select the correct date. Confirm with the SET button and exit the program menu.
  Note: The Day of the Week will set automatically when the year, month and date are set.

Fahrenheit/Celsius

- Press and release the -/°C/°F button once on the display to switch from Fahrenheit to Celsius.

Channel Scroll-AUTO

The word AUTO will appear in the outdoor temperature/humidity area when multiple transmitters are received and the forecast station is set to scroll through the channels automatically.
- Press and release the CH button repeatedly until AUTO is displayed. The forecast station will rotate through all available channels.
- Press and release the CH button once to display only one channel continually.

The forecast station can receive up to 3 outdoor transmitters. Extra TX142TH sensors may be found online or at your retailer to monitor remote temperature and humidity of up to 3 locations with over 200 foot wireless range (open air) to the display.
Note: When only one transmitter is connected, you cannot see other channels.

Backlight

A/C adapter: The backlight is on continuously when operating the display with the 5-volt A/C adapter.
- **HIGH:** The backlight is defaulted to HI when the Adapter is in use.
- **LO:** Press and release the LIGHT HI/LO button to dim the backlight. Press and release again to return to full strength.
  Note: When the Adapter is NOT in use, the High/Lo light feature is not available.
- **OFF:** Hold the HOLD ON/OFF button for 5 seconds, until the station beeps, to turn the backlight off, to sleep.
- **ON:** Hold the HOLD ON/OFF button again until the station beeps, to turn the backlight on.
  Note: When the backlight is off, press any button to activate the backlight for 8 seconds

Battery power: Press and release the SNOOZE/LIGHT button and the backlight will show for 8 seconds when operating on batteries only.

Alarm Set

- ALARM HOUR: Press and hold ALARM button to enter alarm time setting mode. The **Alarm Hour** will flash. Use the +/RCC or -/°C/°F button to set the Hour. Press and release the ALARM button.
- ALARM MINUTE: The **Alarm Minutes** will flash. Use the +/RCC or -/°C/°F button to set the Minutes. Press and release the ALARM button to exit.

Alarm Activate/Deactivate

- Press and release the ALARM button once to show Alarm Time.
- Press and release the ALARM button repeatedly to activate or deactivate the Alarm.
- The alarm icon appears when alarm is activated.

Snooze

- When the alarm sounds, press the SNOOZE button to trigger snooze alarm for 10 minutes. The snooze icon **Zz** will flash when the snooze feature is active.
- To stop alarm for one day, press ALARM button, while in snooze mode. The alarm icon will remain solid.
  Note: When the alarm sounds, it continues for 2 minutes and then shuts off completely.

USB Charging Port

The integrated USB charging port (on back) will charge your smart phone, camera or other devices when the forecast station is plugged into a power outlet with the included 5V A/C adapter.
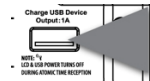**Note:** This is a power-output charging port. The charging port does not supply power to the forecast station.

Begin charging your external device by connecting the device's USB charging cable (not included) to the USB charging port on the back of the forecast station. Charging times will vary.
Note: Some USB cables are for data transfer only and cannot be used for charging. Make sure that the USB cable you use will charge your device. Most USB cables included with mobile devices will work for charging.
• USB Power Output: 1A maximum current
• Do NOT overload USB port. Charge 1A devices or less only

IMPORTANT: To avoid interference when operating on A/C power, the backlight and USB charge port will turn off while the forecast station searches for the WWVB signal. The backlight and USB charge port resume after a 2-10 minute search which occurs during the late night or early morning hours.

Weather Forecast Icons

The forecast station predicts weather condition of the next 12-hours based on the change of atmospheric pressure with 70-75% accuracy. **Note:** As weather conditions cannot be 100% correctly forecasted, we are not responsible for any loss caused by an incorrect forecast.

SUNNY   PARTLY CLOUDY   CLOUDY   RAINY   STORMY

THIS STATION LEARNS

The forecast station calibrates barometric pressure based on its location over a period of time to generate an accurate, personal forecast. Please allow 3 to 4 weeks for barometer calibration.

IMPORTANT: As the forecast station builds memory, it will compare the current average pressure to the past forty day average pressure for increased accuracy. The longer the forecast station operates in one location the more accurate the forecast icons will be.

MIN/MAX Temperature/Humidity Data

The forecast station shows daily minimum and maximum temperatures each day starting at midnight (12:00 AM). The station automatically resets the min/max temperatures at midnight (12:00 AM).

• **View MAX data:** Press and release the MIN/MAX button once to view maximum temperature and humidity values for indoor and outdoor data.
• **View MIN data:** Press and release the MIN/MAX button twice to view minimum temperature and humidity values for indoor or outdoor data.
• **Reset MIN/MAX data:** Hold the MIN/MAX button for 5 seconds to reset all min/max values.

Heat Index

Heat Index combines the effects of heat and humidity. It is the apparent temperature of how hot it feels to a human being.

Note: Heat index will be the same number as the temperature until the temperature is above 80°F (26.7°C).
View Heat Index: From a normal display press the HEAT/DEW button once and Heat Index will show instead of the ambient temperature.

Dew Point

Dew point is the saturation point of the air, or the temperature to which the air has to be cooled in order to create condensation.
Note: Dew Point generally is lower than the temperature.

View Dew Point: From a normal display, press the HEAT/DEW button twice and Dew Point will show instead of the ambient temperature.
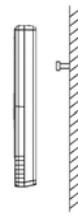
Low Battery

• When the low battery icon 🔋 appears in the indoor (IN) reading section, replace the batteries in the forecast station.
• When the low battery icon 🔋 appears in the outdoor (OUT) readings section, replace the batteries in the outdoor transmitter.

Position the Outdoor Transmitter

Once the forecast station shows the outdoor temperature/humidity, place it and the transmitter in the desired locations and wait approximately 1-hour before permanently mounting the transmitter to ensure that there is proper reception. The transmitter should be mounted vertically, in a shaded, protected area, at least 6 feet from the ground to ensure accurate readings. The transmitter is water resistant, not waterproof and should not be placed anywhere it will become submerged in water or subject to standing water or snow. Wireless transmitting range in open air is over 200 feet (60 meters) from outdoor transmitter to forecast station.

Option 1:
• Install one mounting screw (not included) into a wall leaving approximately ½ of an inch (12.7mm) extended.
• Place the transmitter onto the screw, using the hanging hole on the backside.
• Gently pull the transmitter down to lock the screw into place.

Option 2:
• Insert the mounting screw (not included) through the front of the transmitter and into the wall.
• Tighten the screw to snug (do not over tighten).

To achieve a true temperature/humidity reading, mount where direct sunlight cannot reach the outdoor transmitter. Mount the outdoor transmitter on a North-facing wall or in any well shaded area. Under an eave or deck rail work well. The maximum transmitting range in open air is over 200 feet (60 meters). Obstacles such as walls, windows, stucco, concrete and large metal objects can reduce the range. Place the transmitter at least 6 feet in the air to improve signal transmission.

Care and Maintenance

• **Do Not Mix Old and New Batteries**
• **Do Not Mix Alkaline, Standard, Lithium or Rechargeable Batteries**
• Do not expose the forecast station to extreme temperatures, vibration or shock.
• Clean forecast station with a soft damp cloth. Do not use solvents or scouring agents.
• The product is not a toy. Keep it out of reach of children.
• The product is not to be used for medical purpose or for public information. It is for home use only.
• The specifications of this product may change without prior notice.
• Improper use or unauthorized opening of housing will void the warranty.
• If the unit does not work properly, change the batteries and/or check the A/C cord connection.

Specifications

Indoor Temperature Range:	32° F to 122° F (0° C to 50° C)
Humidity Range:	1%-99% (RH)
Interval:	Every 30 seconds
Outdoor Temperature Range:	-40°F to 140°F (-40°C to 60°C)
	Temperatures below - 20°F (-28.8°C) require Lithium batteries in the outdoor sensor.
Humidity Range:	1%-99% (RH)
Distance:	Over 200 ft. (60 meters) RF 433MHz (open air)
Interval:	Every 50 seconds
Power Forecast Station:	5-volt A/C power adapter (included)
	Optional 3-AA, IEC, LR6 batteries (not included)
TX142TH Transmitter:	2-AA, IEC, LR6 batteries (not included)
Battery Life TX142TH:	Battery life is over 24 months when using reputable battery brands for both Alkaline and Lithium batteries
Forecast Station Battery Backup:	Battery life is over 24 months when using the A/C adapter for primary power

Dimensions:

Forecast Station:	5.9" L x 2.36" W x 5.9" H (150 x 60 x 150mm)
TX142TH Transmitter:	2.4" L x 1.3" W x 3.78" H (64 x 36 x 101mm)

Caution!
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY TO OPERATE THE EQUIPMENT

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