

Remote Monitoring Color Weather Station



Welcome!

Congratulations on your new Professional Weather Station and welcome to the La Crosse Technology family! This product was designed with you in mind by our hometown team of weather enthusiasts based in La Crosse, Wisconsin.

Instructional Manual
Model: V10-TH
DC: 021920

www.lacrossetechnology.com/V10-TH

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STEP 1. Power Up

Insert batteries (sold separately):

- 2-AA batteries into thermo-hygro sensor
- 5 volt power cord (required) into your weather station
- *3-AA batteries for optional backup of your time and date

*Battery operation only, station will not update sensor or Wi-Fi data. Power cord is required.

STEP 2: Station Options

OPTION 1

CONNECT WITH LA CROSSE VIEW™ APP

The easiest and fastest way to setup your station!

- Enjoy all of the standalone station features along with the enhanced feature set from your La Crosse View™ app! Continue with these instructions on [page 4](#).

OPTION 2

OPERATE AS A STANDALONE STATION

Full Weather Station Features

- Monitor your backyard temperature, and humidity information on the easy-to-read LCD display. Continue with these instructions on [page 9](#).
- You always have the option of connecting to the La Crosse View™ app at a later time if you choose.

STEP 3: Mounting Basics

At this time, all of your sensor information should be displayed on your station. Here are a few quick tips for mounting your sensor:

THERMO-HYGRO

Keep out of direct sunlight & ensure the sensor is well-ventilated.

- We recommend mounting under a deck or eave facing north.

For detailed sensor setup and mounting instructions, see [page 17](#).

Option 1: Connect with La Crosse View™

DOWNLOAD


- Visit the App Store or Google Play Store to download the free **La Crosse View™** app on your mobile device.



CHECK YOUR NETWORK

- Confirm that your mobile device is connected to a 2.4GHz (802.11 b/g/n) Wi-Fi band before trying to connect your station to the La Crosse View app. The station itself cannot accept 5GHz Wi-Fi bands that most dual-band routers offer

MAKE SURE YOUR STATION IS READY TO CONNECT

- When connecting to the app, ensure the Wi-Fi Indicator icon is blinking. 
 - **Solid:** Indicates that you are connected to Wi-Fi
 - **Slow Flash:** Searching for connection
 - **Not displayed:** Not Connected
 - If your Wi-Fi icon is not displayed, perform a Wi-Fi search by pressing & holding the + & - buttons together until it begins to flash.
 - For detailed information about all of this station's icons, see [page 11](#).

LAUNCH

- Open the app on your iOS or Android device.

FOLLOW INSTRUCTIONS

- The La Crosse View™ app will walk you through creating an account and connecting your station to the Internet. Once connected, your time, date, and local forecast information will update instantly on your weather station's screen. For online support: <http://www.lacrossetechnology.com/lacrosseviewsupport>

Wi-Fi Network Requirements

In order for your station to connect to your Wi-Fi, it will need to meet the following requirements:

- Confirm that your mobile device is connected to a 2.4GHz (802.11 b/g/n) channel of a dual band, Wi-Fi network before trying to connect your station to the La Crosse View app. The station itself cannot accept 5 GHz Wi-Fi bands.
- Weather station power cord use is required for Wi-Fi connection.

iOS Requirements: Mobile device with iOS 9.0 (or higher) with cellular or Wi-Fi service

Android Requirements: Mobile device with Android OS 5.0 (or higher) with cellular or Wi-Fi service

Tips:

- Do not use public Wi-Fi networks.
- Your weather station and mobile device must be within 10 feet of each other during setup.
- If you change your Wi-Fi network, simply go into the La Crosse View™ app, select your station, and then choose "Select Wi-Fi" from the app menu. Here, you will just need to enter your new Wi-Fi network's login information.
- Hold the PLUS and MINUS buttons together for 3 seconds to have your station search for your Wi-Fi.
- If you have connection issues, Hold the ALERTS and LIGHT buttons together for 5 seconds to complete a factory restart.

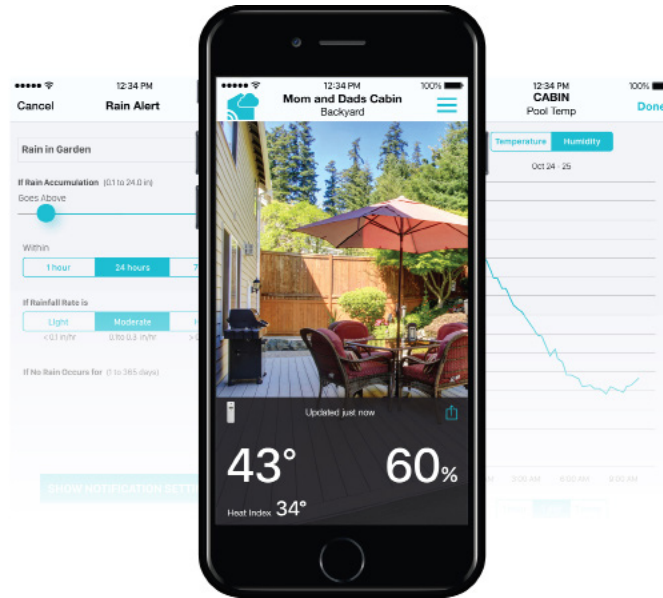
Note: If switching to a new Wi-Fi network, your station may take up to 3 minutes to reacquire all sensor information.

Note: In the event of a power outage, or your station being unplugged temporarily, your station should automatically reconnect to your existing Wi-Fi network, once power is reestablished.

Note: Weather station power cord use is required. Battery operation only will not update sensor or Wi-Fi data.



Connecting You to Your Home **Anytime, Anywhere.**



ON-THE-GO **HOME MONITORING**

- Check Current Indoor & Outdoor Readings, View History Charts, and Set Custom Mobile Alerts.

FRIENDS & FAMILY **SHARED ACCOUNTS**

- No Need to Share Logins or Passwords! Invite Friends & Family to Download the App & Monitor Your Home's Data.

BEST IN CLASS **APP EXPERIENCE**

- Use Your Own Photos and Receive Free Push Notifications on the New, Easy-to-Navigate App

NEW **DATA STREAM** TECHNOLOGY

- Add your own personal messages or NWS data feeds from your La Crosse View™ app, that will show on your station.

ADD OTHER SENSORS TO YOUR LA CROSSE VIEW™ APP

- You can add additional Temperature & Humidity, Wind Speed, Rain, or Multi-Sensors to your La Crosse View™ app, easily expanding your coverage to all areas of your home.
- Your weather station will act as a Wi-Fi gateway, allowing these additional sensors to pass through the station and show their data on your La Crosse View™ app.
- Add-on sensor data will, however, not be shown directly on your weather station.
- For more help connecting additional sensors, see [page 9](#).

La Crosse View™ Enhancements

NWS (National Weather Service) Daily HI | LO temperature

Note: When not using the app, the daily HI | LO will come from your outdoor TH sensor.

NWS Chance of Precipitation

The letters NWS will show in the forecast area

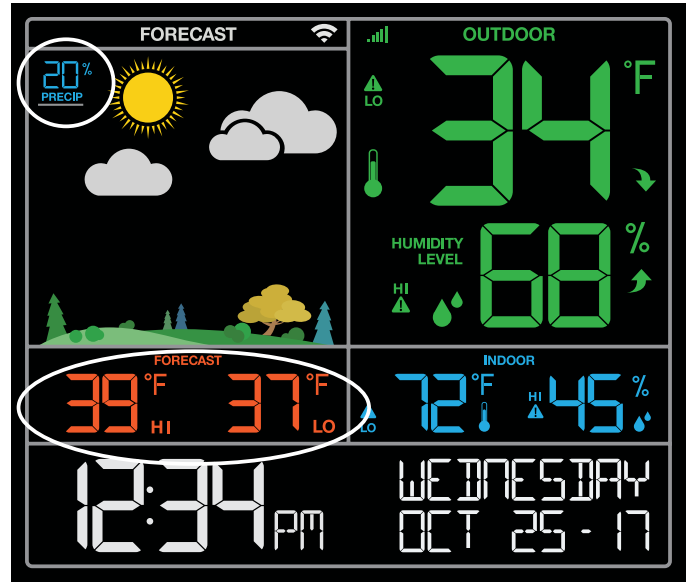
NWS Additional Forecast Icons

Standard Icons:

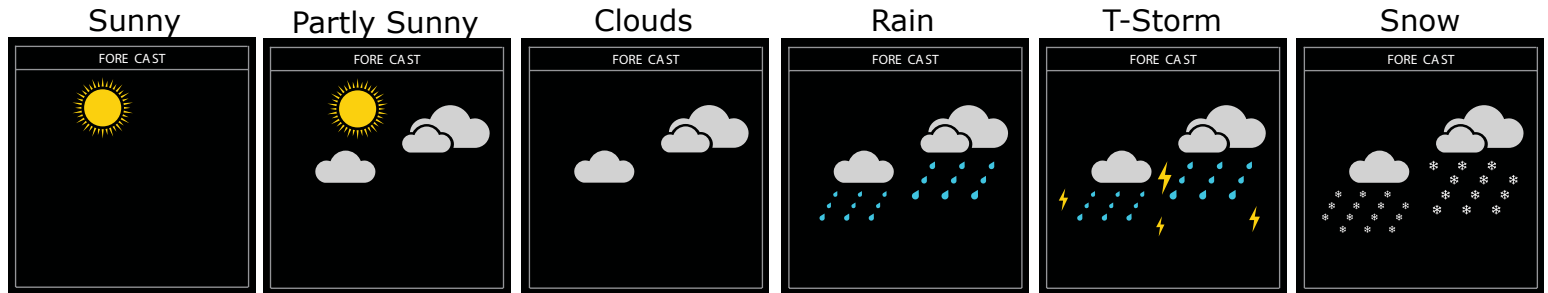
Sunny • Partly Sunny • Clouds • Rain • T-Storm • Snow

Additional Icons:

Windy • Light Rain • Severe T-Storm • Light Snow
Wintry Mix • Blizzard • Fog • Ice



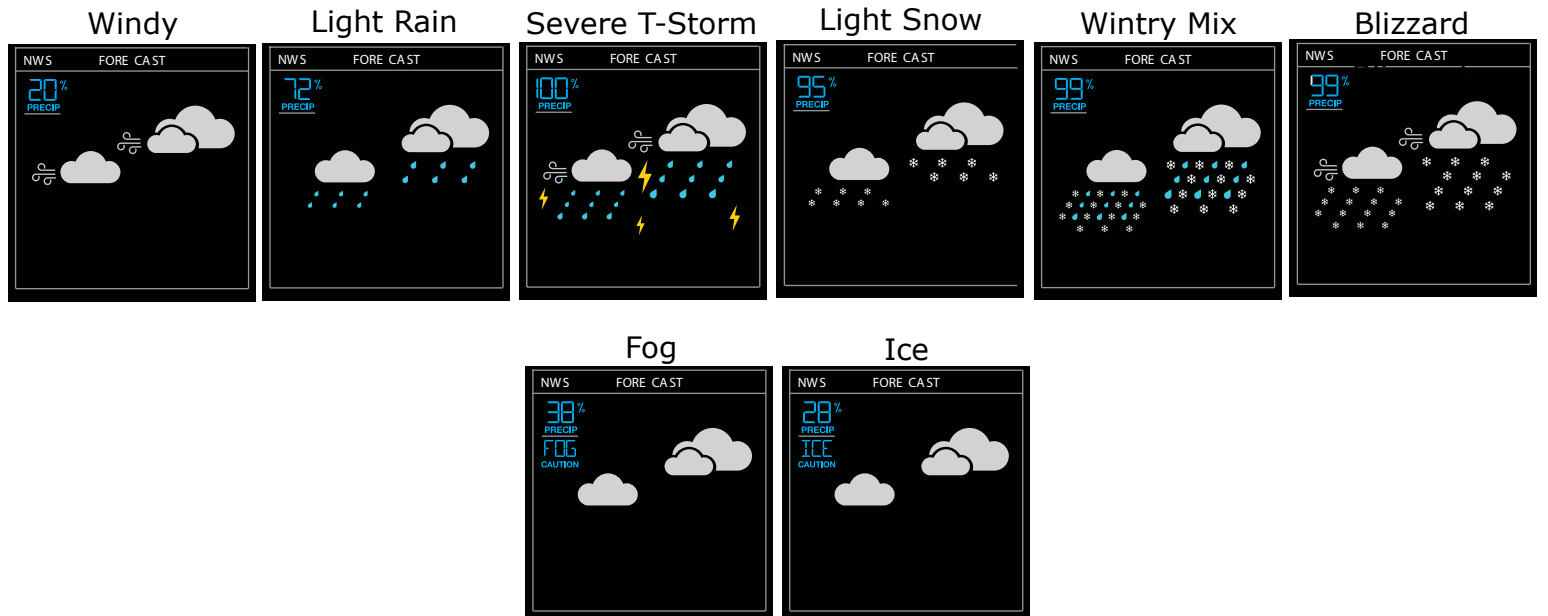
Standard Forecast Icons:



Note: Snow icon will show when the outdoor temperature is 32°F or lower and the forecast is Rain or T-Storm.


NWS Additional Forecast Icons:

When your station is connected to the NWS, you will see the six icons above (with precipitation added) as well as the additional eight icons here:



New Data Stream Technology

Use the Data Stream Menu in the La Crosse View™ app to select up to 3 items to stream on your station.

1. Open the La Crosse View™ app and select your station.
2. Scroll down to the Data Stream section and press the blue icon. 
3. Follow the app's instructions to add the “Data Stream” you’d like displayed on your station

Allow a few minutes for all the data to update on your station.

Data Stream Items:

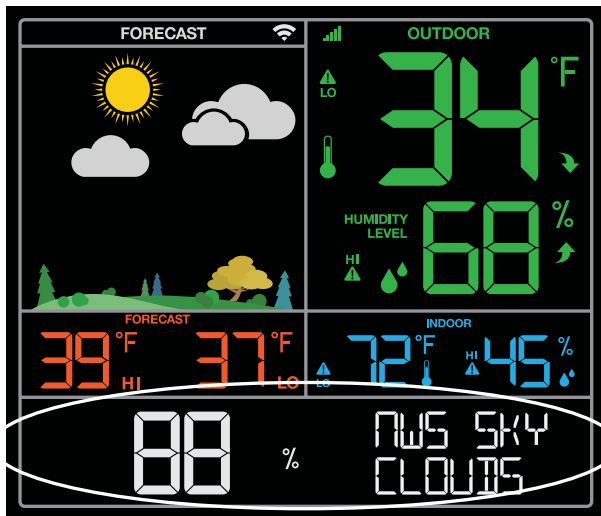
National Weather Service (NWS)

- Selectable Forecast on Your Display
(Wind, Snow, & Sky Conditions, probability of Thunderstorms, Hail or Tornados)

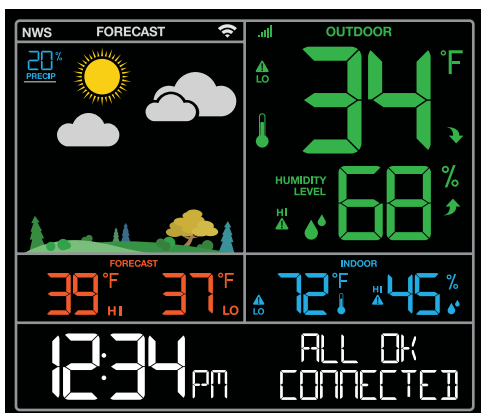
Personal Message

- Enter Up to 20 Characters for Special Events or Reminders

Note: Allow up to 10 minutes for new Data Stream selections to appear on your station.



Simple Status Messages

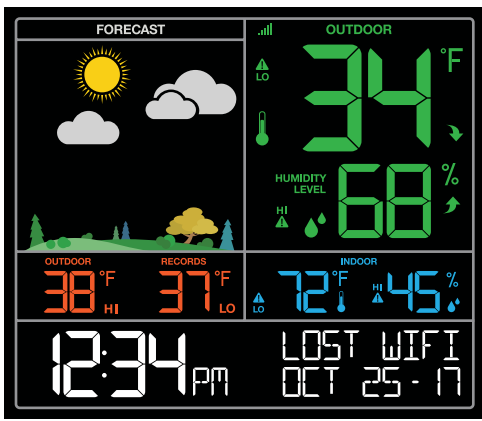


Your station has built-in status messages for your convenience. Press and release the SET button to view.

Note: Only one relevant status message will display.

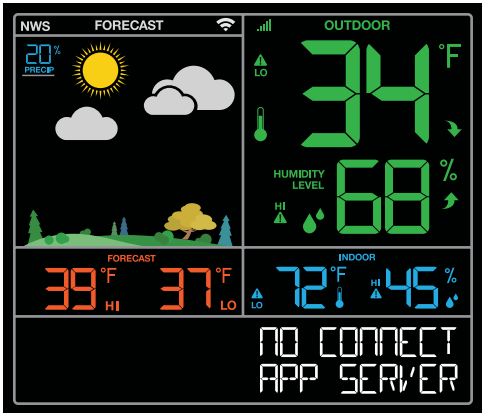
“ALL OK CONNECTED”

- Your station is connected, there are no problems.



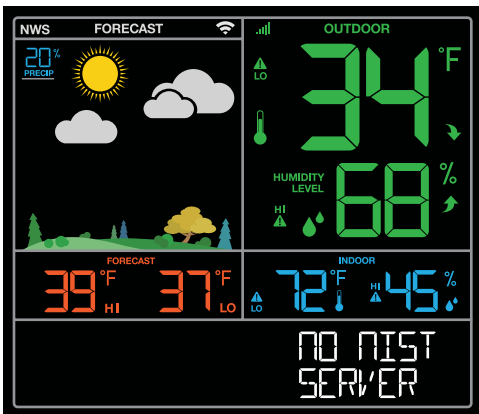
“LOST Wi-Fi”

- Check your power cord connection. (power cord required to connect)
- When trying to reestablish your station’s Wi-Fi connection, be sure your mobile device is on the same 2.4GHz network you want your station to use.
- Check your network connection.
- Hold the + and - buttons together for 3 seconds to search for Wi-Fi.



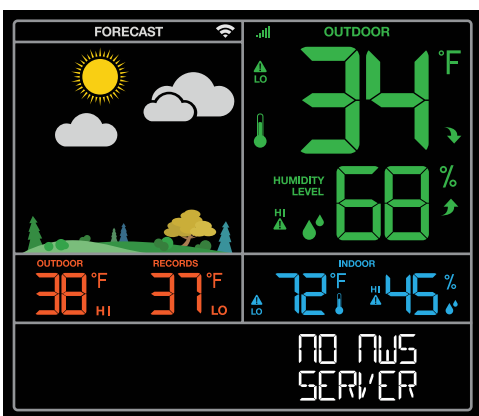
“NO CONNECT APP SERVER”

- The Wi-Fi router connection is working.
- Check your connection to the La Crosse View app.
- Is there an update to install?



“NO NIST SERVER”

- This indicates an error on the NIST server.
- Your time will be maintained by your weather station until the NIST updates resume.
- The NIST will resolve this.
- Very rare to have this error.



“NO NWS SERVER”

- This indicates an error on the NWS server.
- NWS Expanded Forecast, and selected data streams will not update or show.
- The NWS will resolve this.
- Very rare to have this error.



Connect Additional Sensors to Your La Crosse View™ App

DID YOU KNOW?

You can expand your system's coverage with additional sensors (sold separately). These add-on sensors will use your weather station as a gateway to the La Crosse View app, where their data can be viewed and tracked 24/7 from anywhere.

Note: The number of sensors or stations you can add will be limited by the memory of your mobile device.

Expand your coverage:

- Your baby's room
- Your wine cellar
- Your basement
- Your attic
- Your garage

Just add a sensor and use your La Crosse View™ app to monitor its data anywhere on-the-go.

Add Sensors:

Open your La Crosse View™ app to add sensors.

1. From Main Menu - select "Devices" under "Add/Edit"
2. On Edit Devices page - select "ADD DEVICE"
3. Scan Device ID - Scan the bar code on your sensor or choose "ADD MANUALLY" to type in the number on the bar code. Select "CONTINUE".



4. On Confirm Device page - Confirm the sensor image and select "YES"
5. On Enter Device and Location Name page - enter Device Name and select a location or enter a Location Name for your sensor. Select "DONE".

Repeat steps 1-5 for any additional sensors you wish to add.

Note: Additional sensors may be purchased and added to your La Crosse View™ app at any time. Compatible additional sensors start with the letters "LTV-". Always check your product page for available sensors:

www.lacrossetechnology.com/C84343

For support and guidance of your La Crosse View™ app, please visit:

www.lacrossetechnology.com/lacrosseviewsupport

Option 2: Standalone Station

When operating as a standalone station, you can manually adjust your stations settings

Note: When using the La Crosse View™ app, time and date will be set automatically.

Settings Menu

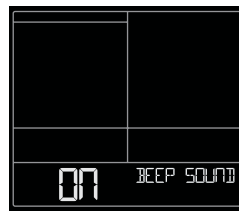
1. Hold the SET button for 3 seconds to enter settings menu.
2. Press and release the + or - buttons to adjust the flashing values. Hold to adjust quickly.
3. Press and release the SET button to confirm and move to the next item.

Note: Press and release the LIGHT button anytime to exit settings.

Settings menu order:

1. BEEP ON | OFF
2. 12/24 hour format
3. Hour
4. Minutes
5. Year
6. Month
7. Date
8. Temperature Fahrenheit | Celsius

BEEP ON | OFF



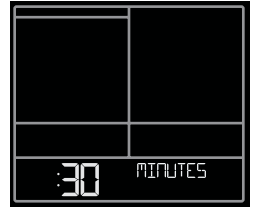
12 | 24 Hour Time



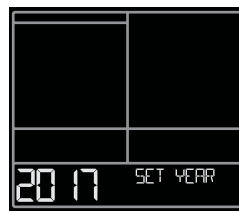
Hour



Minutes



Year



Month



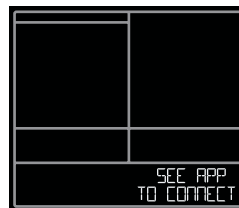
Date



Temp °F | °C



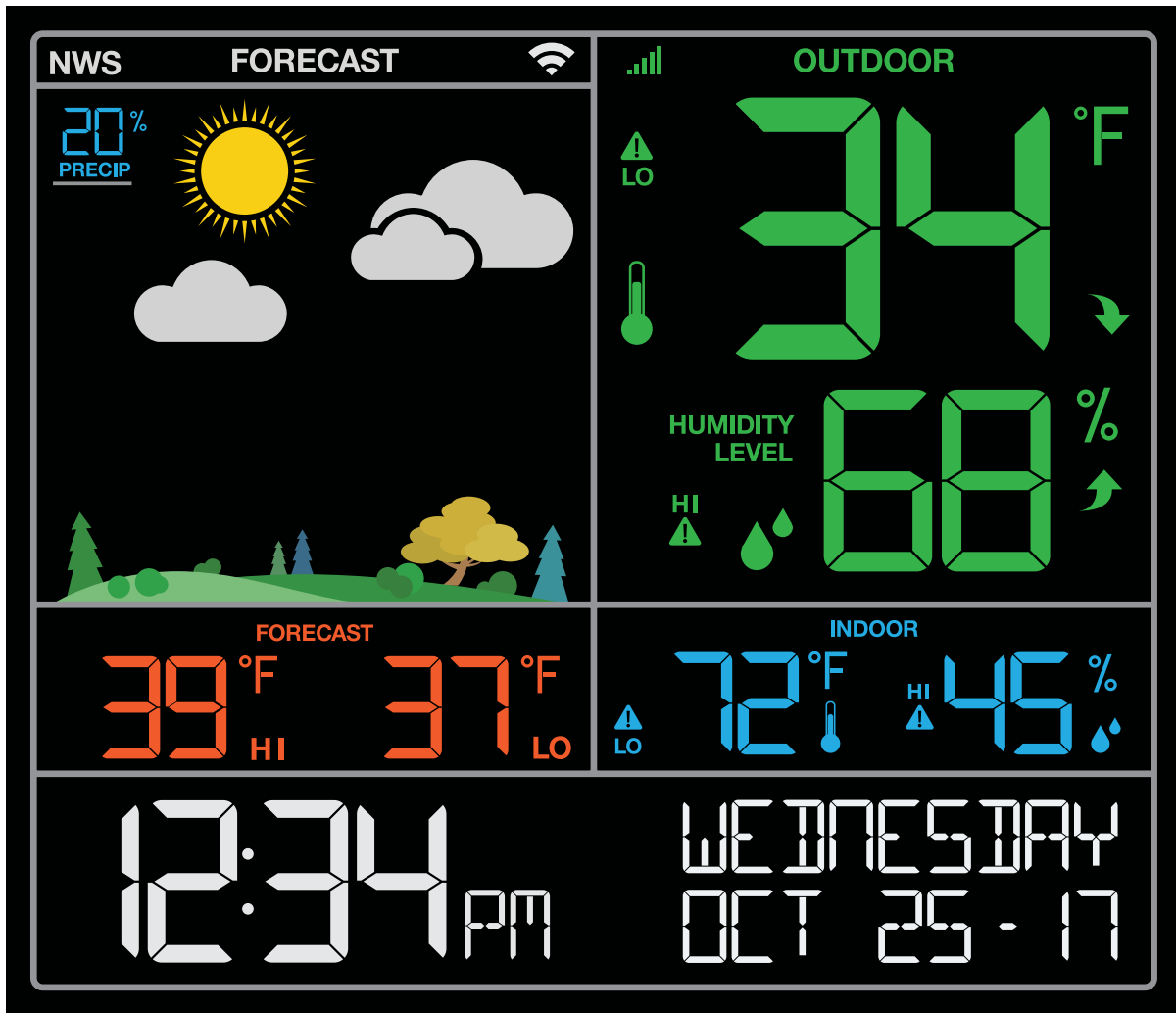
Connection Prompt



Note: SEE APP TO CONNECT will show as a reminder to connect to La Crosse View™ (optional).

- Press the LIGHT button to exit Settings Menu.

Your Station's Features - Standalone or Connected



NWS

NWS Forecast Information:
Precipitation, HI | LO, etc.



Weather Forecast Icons



Wi-Fi Connection Icon



Low Battery Icons



Sensor Reception Icon



Trend Arrows



Fahrenheit or Celsius - Temperature



Percentage - Relative Humidity



Relative Humidity Icon



Temperature Icon



Standalone stations can only display
time and date information as shown here



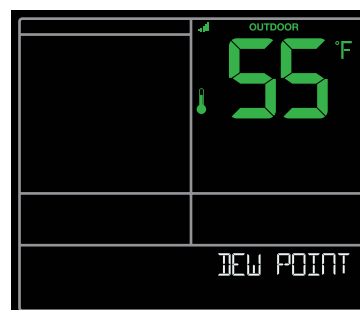
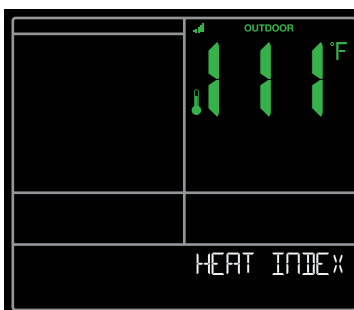
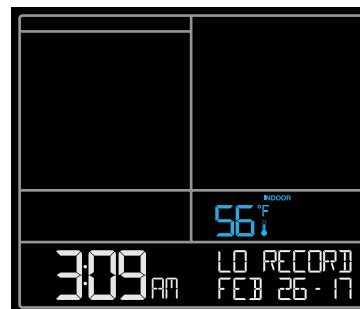
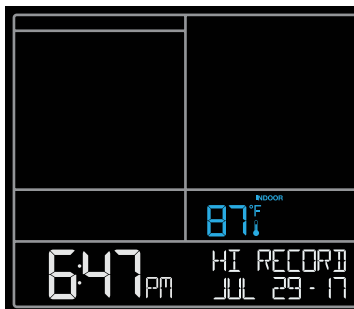
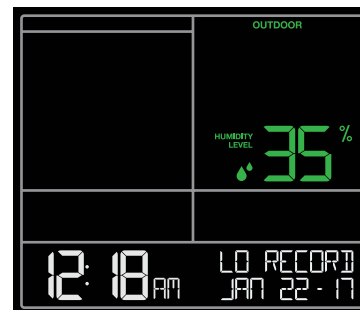
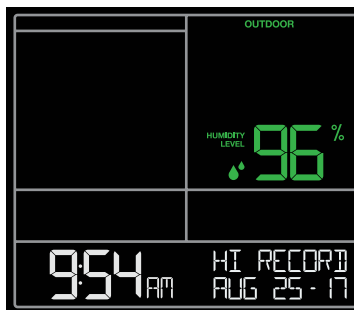
Connected stations offer the ability to
display custom data, controlled with the
La Crosse View™ app

HI | LO Temperature/Humidity Records

Press and release the TEMP button to view your HI and LO records with time and date of occurrence. A new HI or LO record will replace the existing record.

Viewing order:

- Outdoor HI Temp with Time/Date
- Outdoor LO Temp with Time/Date
- Outdoor HI Humidity with Time/Date
- Outdoor LO Humidity with Time/Date
- Indoor HI Temp with Time/Date
- Indoor LO Temp with Time/Date
- Indoor HI Humidity with Time/Date
- Indoor LO Humidity with Time/Date
- Outdoor Heat Index
- Outdoor Dew Point



Reset HI | LO

Temperature/Humidity Records

1. Press the TEMP button to view individual readings.
2. Hold the MINUS button for five seconds to reset the individual value.
3. HI | LO reading will reset to current temperature, humidity, and current time/date.

Alerts: Temperature | Humidity

Programmable Temperature and Humidity alerts keep you on top of changing conditions.

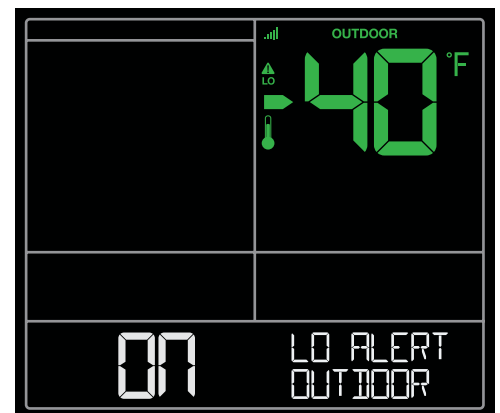
To set alerts:

1. Hold the ALERTS button to enter alert set mode
2. Outdoor LOW temperature alert OFF will show.
3. If you wish to set this alert value, press the + or – buttons to arm this alert (ON).
4. When the alert is armed (ON) press and release the ALERTS button and the alert value will flash.
5. Press the + or – buttons to change the alert value.
6. Press the ALERTS button to confirm and move to the next alert.
7. If you do not wish to set an alert, press the ALERTS button again to move the next alert.
(When the alert is OFF (disarmed) press ALERTS button to skip setting that alert value).

Note: Press the LIGHT button at any time to exit.

Alert Setting Order:

- Outdoor LOW Temperature
- Outdoor HIGH Temperature
- Outdoor LOW Humidity
- Outdoor HIGH Humidity
- Indoor LOW Temperature
- Indoor HIGH Temperature
- Indoor LOW Humidity
- Indoor HIGH Humidity



Disarm Alerts

1. Hold the ALERTS button 3 seconds to enter alert set mode.
2. Press and release ALERTS button until you see the alert you wish to disarm.
3. Press the +/- buttons to disarm the alert. The alert text goes from ON to OFF.
4. Press the LIGHT button to exit.


Active Alerts


- When armed alert value is reached, station will beep 5 times each minute, until out of alert range.
- The flashing alert icon will indicate the type of alert HI or LO.
- Press any button to stop the alert from sounding.
- The alert icon will continue flashing while alert value is in alert range.
- Disarm the alert to stop the alert entirely.



Temperature | Humidity Trend Arrows

Your temperature and humidity trend arrows update every 15 minutes. The trend reflects changes over the past one hour period.

 UP ARROW: For this to show, the temperature will have to rise by 2°F (1°C), or the humidity go up by 3%RH or more within the current hour.

 DOWN ARROW: For this to show, the temperature will have to fall by 2°F (1°C), or the humidity drop by 3%RH or more within the current hour.

Daily HI | LO Temperatures

- When your station is connected to the La Crosse View™ app, you will see NWS FORECAST over the HI | LO temperatures.
- This indicates the daily HI | LO values displayed are from the National Weather Service.
- When you operate your station as a standalone unit, the daily HI | LO readings come directly from your outdoor sensor.
- The daily HI | LO temperatures cannot be reset.



Note: When connected and receiving NWS forecast information, your daily HI and LO temperature readings will oftentimes not match those recorded from your sensor, and therefore will differ from the records in your La Crosse View™ app.

Seasonal Changes in Foliage

The tree foliage will change seasonally on your weather station. The dates are programmed into your weather station for an automatic foliage change.



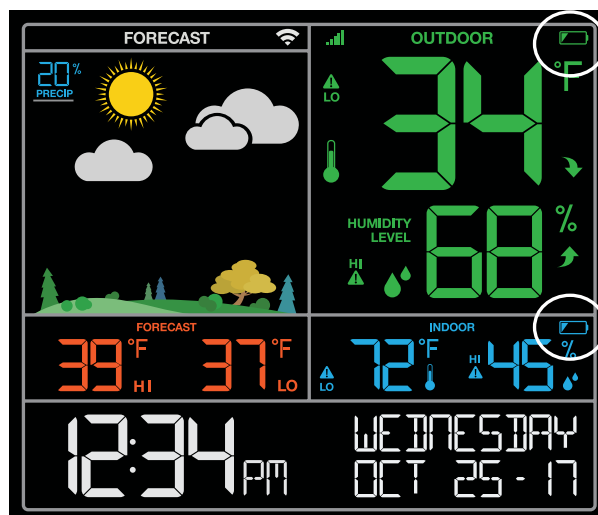
Backlight Brightness (5 levels)

Your station has 5 levels of brightness for the backlight:

- When operating with the power cord press and release the LIGHT button to adjust the backlight:
Intensity Levels: 0% | 3% | 20% | 50% | 100%
- When operating on battery power only, press the LIGHT button to activate the backlight for 10 seconds at 100%.

Low Battery Icons

- Battery by Outdoor Temperature, replace batteries in your Thermo-Hygro sensor.
- Battery by Indoor Temperature, replace batteries in your station.



Sensor ID | Sensor Search


Each of your sensors has an individual ID number, located on its bar code. This sensor ID is visible on your station by pressing the SENSOR button.



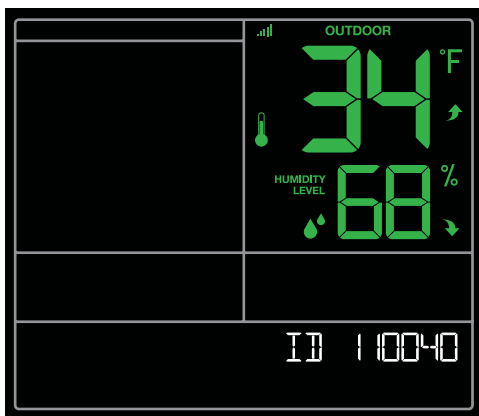
View ID numbers:

- Press and release the SENSOR button to view individual station and sensor ID numbers. All other information will disappear temporarily.

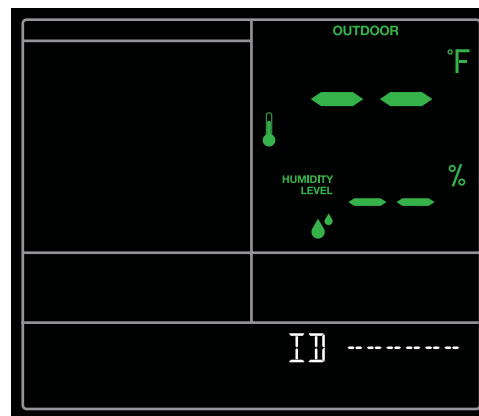
Search for all sensors:

- While viewing sensor ID, hold the SENSOR button for 3 seconds to search for all sensors.
- The station will search for all sensor ID numbers on the station.
- The sensor reception icon will flash for each sensor while searching. 
- The sensor reception icon will be solid when sensor signal is acquired.
- Allow up to 3 minutes to receive sensor signal.

View Sensor ID Number



Deleted Sensor ID Number

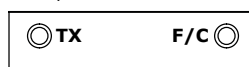


Delete Your Sensor ID

In the rare event you need to replace your sensor, you will first need to delete the old sensor ID from your station and remove batteries from your old sensor.

1. Remove batteries from your old sensor.
2. Press and release the SENSOR button to view your sensor ID number.
3. While viewing your sensor ID, hold the MINUS button for 5 seconds to delete your old sensor ID. Dashes will show for the ID number.
4. Your station will search for a new sensor.
5. Install batteries in your new sensor and allow up to three minutes for your new sensor readings and ID to appear on your station.

Note: When replacing your Thermo-hygro sensor, press the TX button (under the battery cover) to send a signal immediately.



Factory Reset

A factory restart of your station will remove your sensor ID numbers and Wi-Fi settings and return your station to its default settings and “out of the box” condition. This may resolve connection issues with your sensors or Wi-Fi.

1. Hold the ALERTS and LIGHT button together for 5 seconds.
2. Your station will reset and search for your sensor.
3. Allow up to 3 minutes to reacquire your sensor.
4. You will need to reconnect to your La Crosse View™ app by following the steps on [page 4](#).

Detailed Sensor Set Up and Mounting

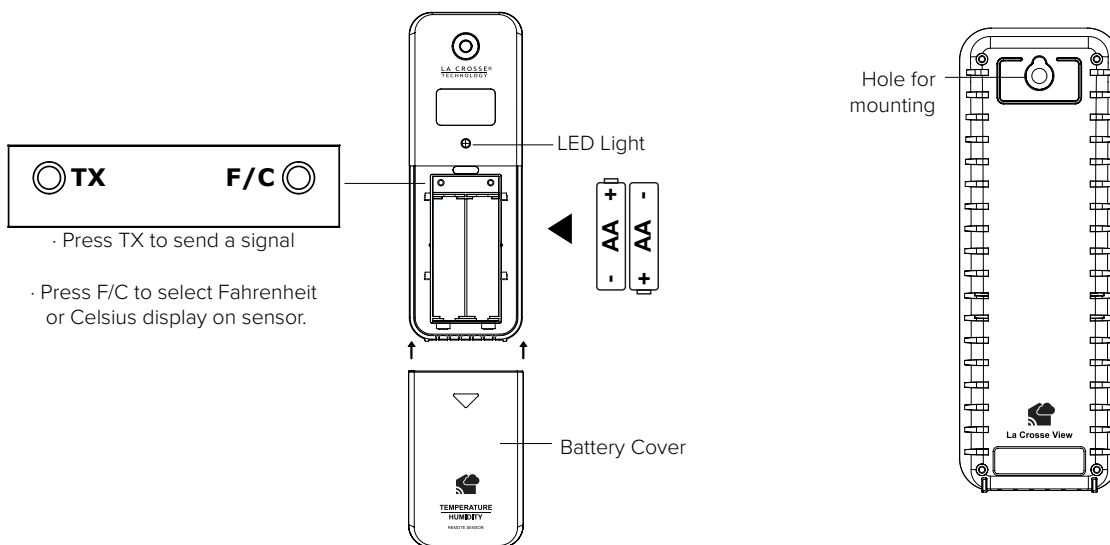
LTV-TH2 Thermo-Hygro Sensor

1. Install 2-AA batteries according to polarity and replace battery cover.

Mounting:

1. Use the hole at the top to hang your sensor from the back using a nail. Or, insert one mounting screw through the front of your sensor.
2. Mount your sensor on a north-facing wall or in any shaded area. Under an eave or deck rail is preferred.
3. The maximum wireless transmission range to the weather station is up to 400 feet (121 meters) in open air, not including walls or floors.
4. Be sure your sensor is mounted vertically, to allow moisture to drain out properly.

Note: Watch sensor mounting video: http://bit.ly/TH_SensorMounting



V10-TH

1. Insert the power cord into a wall outlet, then into your station.

Optional: Insert 3 AA batteries into your station to maintain time/date in the event of a power outage.

Mounting:

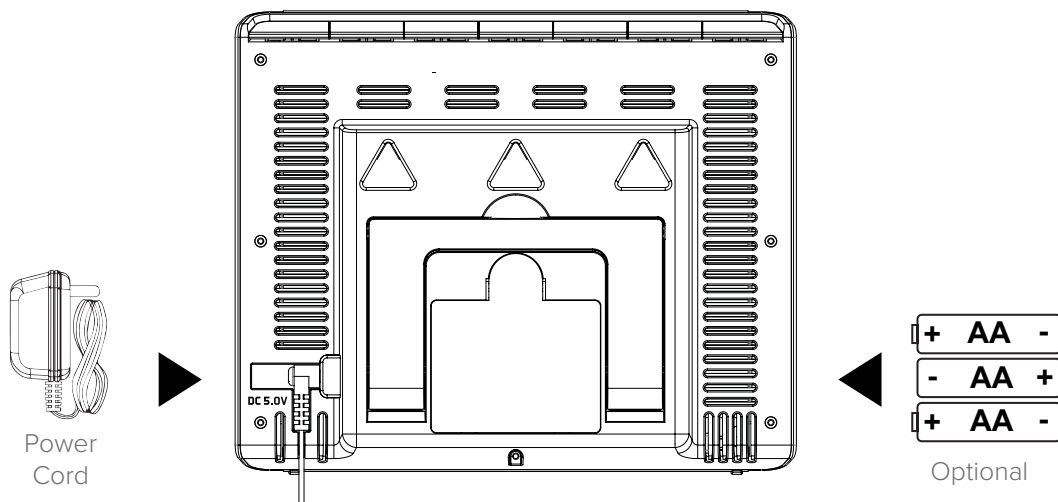
1. Place your station near an outlet. Power cord is required for operation.

2. Use the mounting holes on the back to place your station on a wall.

3. Use the pull down stand on the back of your station to place on a desk or counter.

4. Your station should remain in good Wi-Fi range of your wireless router to use all of the remote monitoring features the La Crosse View™ app has to offer.

For more information on manually setting you weather station see [page 10](#).



WE'RE HERE TO HELP!

If you require additional support, get in touch with our friendly customer support team based out of La Crosse, WI.

Phone: 1.844.200.8752 Online: bit.ly/contact_techsupport

Our knowledgeable customer support team is available:

Monday-Friday, 8am-6pm CST.

JOIN THE CONVERSATION

Ask questions, watch detailed setup videos, and provide feedback on our social media outlets!



Specifications

Indoor

Temperature Range:	32°F to 122°F (0°C to 50°C)
Humidity Range:	10% RH to 99%RH

Thermo-hygro Sensor

Temperature Range:	-40°F to 140°F (-40°C to 60°C) Note: Temperatures below -20°F (-29°C) require Lithium batteries in the outdoor sensor.
Humidity Range:	10% RH to 99%RH
Transmission Range:	Up to 400 feet (121 meters) in open air, RF 915 MHz

Wi-Fi

Transmission:	RF 2.4 GHz
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Power

V10-TH Station:	5.0 Volt 600mA power cord included (Required) AC6 HX06-0500600-AU-001 Input: 100-240V 0.3A 50/60Hz
Optional Battery Backup:	3-AA batteries (sold separately), backup for time and date The plug on the power adapter is intended to serve as the disconnect device, the socket-outlet shall be installed near the equipment and shall be easily accessible.
LTV-TH2 Thermo-hygro Sensor:	2-AA batteries (sold separately)

Battery Life

V10-TH Station:	48-60 months with power cord use
LTV-TH2 Sensor:	over 24 months with reputable batteries.

Dimensions

V10-TH Station:	7.80" L x 1.23" W x 6.44" H (19.81cm L x 3.12 cm W x 16.35cm H)
LTV-TH2 Thermo-hygro Sensor:	1.97" L x 0.75" W x 5.73" H (5.0cm L x 1.91cm W x 14.55cm H)

Care and Maintenance

- Do not mix old and new batteries.
- Do not mix Alkaline, Standard, Lithium, or Rechargeable Batteries.
- Always purchase the correct size and grade of battery most suitable for intended use.
- Replace all batteries of a set at the same time.
- Clean the battery contacts and also those of the device prior to battery installation.
- Ensure the batteries are installed with correct polarity (+ and -).
- Remove batteries from equipment when it is not used for an extended period of time.
- Promptly remove expired batteries.

Warranty and Support

La Crosse Technology, Ltd. provides a 1-year limited time warranty (from date of purchase) on this product relating to manufacturing defects in materials & workmanship.

Before returning a product, please contact our friendly customer support with questions or visit our online help:

Phone: 1-844-200-8752

Online Product Support and Registration: www.lacrossetechnology.com/support

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution!

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

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Canada Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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