ACURITE 06101 Wi-Fi Color Display Instruction Manual

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ACU>RITE

Congratulations on your new AcuRite product! To ensure the best possible product performance, please read this manual in its entirety and retain it for future reference.

Contents

Unpacking Instructions

Remove the protective film that is applied to the LCD screen prior to using this product. Locate the tab and peel off to remove.

Package Contents

1. Display with Tabletop Stan

ACU▸RITE
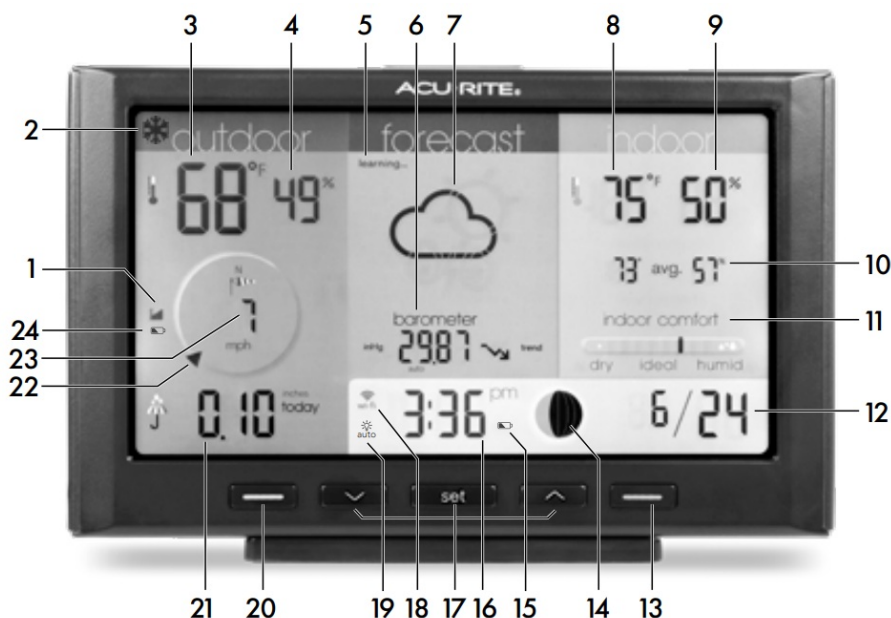
2. Power Adapter
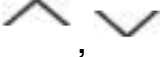3. Quick Setup Guide

IMPORTANT

PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE

PRODUCT REGISTRATION Register online to receive 1-year warranty protection **www.acurite.com/product-registration**

Features & Benefits

Front of Display

1. **Outdoor Sensor Signal Strength**

2. **Freeze Alert Indicator**

3. **Current Outdoor Temperatur**

4. **Current Outdoor Humidity**

5. **Learning Mode Icon** Disappears after weather forecast self-calibration is complete.

6. **Current Barometric Pressure** Arrow icon indicates direction pressure is trending.

7. **12 to 24 Hour Weather Forecast** Self-calibrating technology pulls data from the outdoor sensor to generate a hyperlocal, personalized forecast.

8. **Current Indoor Temperature**

9. **Current Indoor Humidity**

10. **Daily Average for Indoor Temperature and Humidity**

11. **Current Indoor Comfort Monitor** Indicates a Dry, Ideal, or Humid indoor comfort level.

12. **Date**

13. **Indoor Records Toggle Button** Press to cycle through indoor temperature and humidity records for today

14. 14. **Moon Phase**

15. **Display Low Battery Indicator 16. Clock**

16. and Set Buttons For setup preferences.

17. ⌃ , ⌄ , **Icon** Indicates display is connected to your wireless network.

18. 🛜 **Icon** Indicates display is in Auto-dim brightness mode (see page 7.)

19. ☼ auto **Outdoor Records Toggle Button** Press to cycle through historical records for rainfall, wind speed, and outdoor temperature and humidity (see page 10).

20. **Current Rainfall** Displays rainfall from today.

21. **Wind Direction**

22. **Current Wind Speed**

23. **Outdoor Sensor Low Battery Indicator**
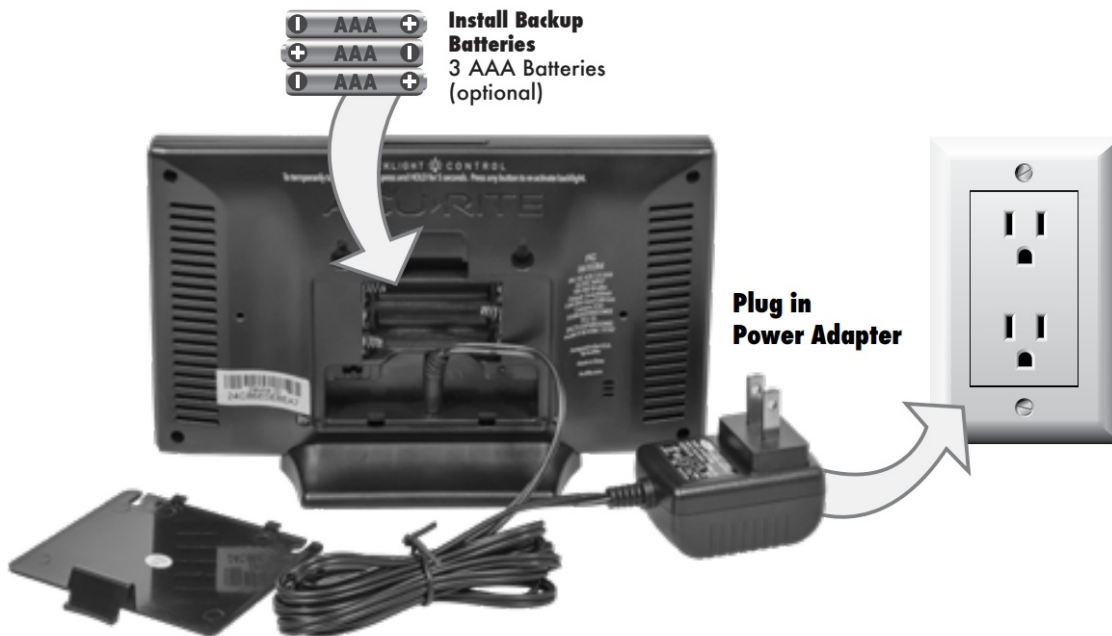
Back of Display

1. **Backlight Button** For momentary backlight and dimmer nsettings.
2. **Integrated Keyhole Hangers** For easy wall mounting.
3. **Backup Battery Compartment**
4. **RESET Button** Press and release to clear historical records.Press and hold for 10 seconds for full reset to factory defaults.
5. **Power Adapter**
6. **Battery Compartment Cover**
7. **Plug-in for Power Adapter**
8. **B-C Switch** ID code that must match outdoor sensor's A-B-C switch to ensure units synchronize.

Setup

Display Setup

1. **Install or Replace Backup Batteries (recommended for backup)**
   1. Remove the battery compartment cover.
   2. Insert 3 x AAA batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment.
   3. 3. Replace the battery cover.
2. **Plug in Power Adapter**
   For the best performance, plug in the power adapter as the main power source for this product.

Install Backup Batteries
3 AAA Batteries (optional)

Plug in Power Adapter

IMPORTANT: Batteries are a backup power source to preserve records in the eventof a power outage and are strongly recommended. **Power adapter is required as theprimary power source to enjoy the full functionality of this product.**

PLEASE DISPOSE OF OLD OR DEFECTIVE BATTERIES IN AN ENVIRONMENTALLY SAFE WAY AND IN ACCORDANCE WITH YOUR LOCAL LAWS AND REGULATIONS.
BATTERY SAFETY: Clean the battery contacts and also those of the device prior to battery installation. Remove batteries from equipment which is not to be used for extended period of time. Follow the polarity (+/-) diagram in the battery compartment. Promptly remove dead batteries from the device. Dispose of used batteries properly. Only batteries of the same or equivalent type as recommended are to be used. DO NOT incinerate used batteries. DO NOT dispose of batteries in fire, as batteries ma explode or leak. DO NOT mix old and new batteries or types of batteries (alkaline/standard). DO NOT use rechargeable batteries. DO NOT recharge non-rechargeable batteries. NOT short-circuit the supply terminals

Set the Time, Date & Units

Press the **"set"** button, located on the front of the display, to enter SET MODE. Once in set mode, the preference you are currently setting will blink on the display. To adjust the currently selected (flashing) item, press and release the " " or " " buttons (press and HOLD to fast adjust). To save your adjustments, press and release the "set" button to adjust the next preference. The preference set order is as follows:

- CLOCK HOUR
- CLOCK MINUTE
- CALENDAR MONTH
- CALENDAR DATE
- CALENDAR YEAR
- UNITS SCALE (U.S. standard or metric)
    - U.S. Standard: Temperature (F), Wind Speed (mph), Rainfall (inches), Pressure (inHg)
    - Metric: Temperature (C), Wind Speed (km/h), Rainfall (mm), Pressure (hPa)

You will automatically exit SET MODE if no buttons are pressed for 10 seconds. Enter SET MODE at any time by pressing the **"set"** button.

Display Backlight Settings

This weather station's color display features three different lighting settings: High (100%) brightness, Medium (60%) brightness and Low (30%) brightness. When display is powered with the power adapter, backlight remains on at 100% brightness. Press the backlight button once to dim to 60% brightness; press again to dim to 30%, press   third time to enter AUTO-DIM mode. "auto" will appear next to the clock.

NOTE: Pressing and holding the backlight button for 3 seconds will disable the backlight. Once any button is pressed, the backlight will return to your selected setting.

AUTO-DIM MODE: Automatically adjusts display brightness based on time of day.
6:00 a.m. – 9:00 p.m. = 100% brightness
9:01 p.m. – 5:59 a.m. = 30% brightness

Placement

Placement for Maximum Accuracy
AcuRite sensors are sensitive to surrounding environmental conditions. Proper placement of both the display and the outdoor sensor are critical to the accuracy and performance of this product.

Device Placement
Place the display in a dry area free of dirt and dust. Display stands upright for tabletop use or is wall-mountable.

Outdoor Device Placement

For optimal performance and the most accurate readings, follow the instructions included with the AcuRite Iris® (5-in-1) outdoor sensor.

Important Placement Guidelines

- To ensure accurate temperature measurement, place units out of direct sunlight and away from any heat sources or vents.
- Display and outdoor sensor must be within 330 ft (100 m) of each other.

- To maximize wireless range, place units away from large metallic items, thick walls, metal surfaces, or other objects that may limit wireless communication.
- To prevent wireless interference, place both units at least 3 ft (90 cm) away from electronic devices (TV, computer, microwave, radio, etc.).

Setup is Complete

Once the outdoor sensor and indoor display have been placed, ensure both devices are powered and on the same A-B-C switch. If so, the outdoor sensor will now synchronize with the display. It may take a few minutes for synchronization to complete. Please refer to the troubleshooting section of this manual if anything appears to be functioning improperly

Wi-Fi Setup for Remote Monitoring

Setup Requires

- Display and AcuRite Iris® Sensor
- 2.4 GHz Wireless Network
- Phone, Tablet, or Computer with Wi-Fi

Before You Begin

- Pair the display with the outdoor sensor and mount the sensor outside. Confirm the display is receiving current data.
- Ensure your router is broadcasting a 2.4 GHz network. The display is equipped with a Wi-Fi module that only supports 2.4 GHz wireless networks.
- Have your Wi-Fi network's SSID (name) and Password ready. These are case-sensitive.

Connect to Display Wi-Fi

1. Open a web browser on your device. Type "192.168.4.1" in the address bar but do not press enter.
2. Go to your network settings to find and select the Wi-Fi signal coming from your display; it will be named by the AcuRite display's model number.
    - Connecting to the display's Wi-Fi will disconnect your device from your own Wi Fi network, which may result in an error message of "No Internet" on your device.
    - If you do not see the display's model number under network settings, press and release the "SET" button on the display to reactivate the Wi-Fi signal.
3. Return to the web browser with "192.168.4.1" in the address bar and press enter. This should bring you to AcuRite's Wi-Fi Display Settings website.
    - If the Settings website doesn't open, disconnect from the display's Wi-Fi on your device repeat steps 1-3 in a new browser.
    - If you get an error stating "This site can't be reached", make sure you are still connected to the display's Wi-Fi network. You may need to have your device forget your own WiFi network so that it stays connected to the display's signal.
4. Select your Wi-Fi network name and enter your network password. If you want to download your local forecast

through My AcuRite, enter your zip code. Press "Save".

- Look for the 📶 icon next to the clock on your display to confirm it is connected.
- To retain Wi-Fi configurations in the event of a power outage, install backup batteries in the display.
- After entering your credentials and clicking "Save", the site will move to a page that says "Please wait while we update your settings." If you receive an error stating that "This site can't be reached" while waiting for your settings to be updated, please proceed to step 5. Your display should still connect properly to your Wi-Fi network, allowing you to proceed with setup.

5. Download the My AcuRite mobile app or visit www.myacurite.com to complete setup. You will need the device ID located on the back of the display.

NOTE: The display can be power cycled at any time to clear Wi-Fi credentials.

OPERATION

Using the Professional Weather Display:

Learning Mode

Self-Calibrating Forecasting uses a unique algorithm to analyze changes in pressure over a time period (called Learning Mode) to determine your altitude. After 14 days, the Learning Mode icon disappears from the display screen. At the point, the self-calibrated pressure is tuned in to your location and the unit is ready for superior weather prediction.
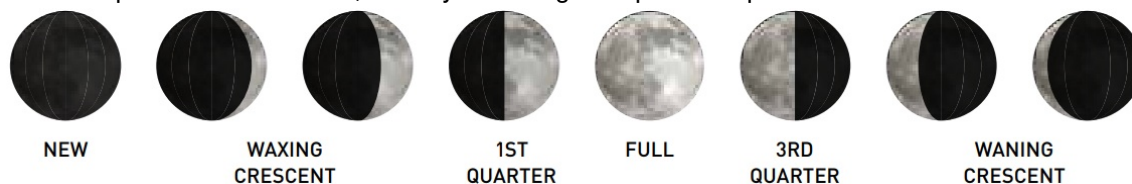
Weather Forecast

AcuRite's patented Self-Calibrating Forecasting provides your personal forecast of weather conditions for the next 12 to 24 hours by collecting data from the sensor in your backyard. It generates a forecast with pinpoint accuracy – personalized for your exact location.

STORMY & WINDY	SNOW LIKELY	SNOW / RAIN MIX LIKELY	RAIN LIKELY	CLOUDY
(flashing = stormy)		(flashing)		

Moon Phase

Track the phases of the moon, conveyed through simple lunar phase icons:

NEW	WAXING CRESCENT	1ST QUARTER	FULL	3RD QUARTER	WANING CRESCENT

Barometric Pressure

Subtle variations in barometric pressure greatly affect the weather. This weather station displays the current pressure with an arrow icon to indicate the direction the pressure is trending (FALLING, STEADY, or RISING).

High & Low Records

Historical records are displayed for rainfall, wind speed, and temperature and humidity. Today's records automatically clear at 12:00 am midnight every day. Press and release the indoor records toggle button to cycle through today's high and low records for indoor temperature and humidity. Press and release the outdoor records toggle button to cycle through historical rainfall data, as well as daily records for wind speed and outdoor temperature and humidity. You will automatically exit records if no buttons are pressed for 8 seconds. To manually clear a HIGH or LOW record, press and release the RESET button, located in the battery compartment, while viewing the record(s) you wish to clear. Dashes display to confirm you have cleared the **record(s).**

Care and Maintenance

Display Care

Clean with a soft, damp cloth. Do not use caustic cleaners or abrasives. Keep away from dust, dirt, and moisture. Clean ventilation ports regularly with a gentle puff of air.

Calibration

The temperature, humidity, and barometric pressure can be calibrated on the display to improve accuracy. Calibration can improve accuracy when sensor placement or environmental factors impact the data accuracy.

1. To access calibration mode, press " ", **"set",** and " " buttons simultaneously for at least 5 seconds.

2. To adjust the currently selected (flashing) item, press and release the " " or " " buttons to calibrate the data value higher or lower from the actual reading.

3. To save your adjustments, press and release the **"set"** button to adjust the next preference.

   The " " icon will remain illuminated next to calibrated values.

The preference set order is as follows:

- OUTDOOR TEMPERATURE
- OUTDOOR HUMIDITY
- INDOOR TEMPERATURE
- INDOOR HUMIDITY
- BAROMETRIC PRESSURE (must be set to MANUAL mode to calibrate)*

*To change from AUTO to MANUAL pressure mode and vice versa, PRESS AND HOLD the **"set"** button for at least 10 seconds. The display indicates the current pressure mode selected, "auto" or "manual". After 10 seconds of inactivity, the display will save the adjustments and exit calibration mode.
NOTE: Calibrations will be erased if the display is reset or if batteries are removed.

Troubleshooting

Problem	Possible Solution

NO OUTDOOR SENSOR RECEPTION ▖▄▆█ no bars	If the wireless signal indicator shows no bars: Relocate the display and/or the outdoor sensor. The units must be within 330 ft (100 m) of each other. - Make sure both units are placed at least 3 ft (.9 m) away from electronics that may interfere with the wireless communication (such as TVs, microwaves, computers, etc.). - Use standard alkaline batteries (or lithium batteries in sensor when temperature is below -4˚F/-20˚C). Do not use heavy-duty or rechargeable batteries.**NOTE:** It may take a few minutes for display and sensor to synchronize after batteries are replaced. -
OUTDOOR TEMPERATURE IS FLASHING OR SHOWING DASHES	Flashing of the outdoor temperature is generally an indication of wireless interference. 1. Bring both the sensor and display indoors and remove batteries/power adapter from each. 2. Make sure the A-B-C switches on both units match. 3. Reinstall batteries in the outdoor sensor. 4. Reinstall batteries/power adapter in the display. 5. Let the units sit within a couple feet of each other for a few minutes to gain a strong connection.
INACCURATE FORECAST	- Weather Forecast icon predicts conditions for the next 12 to 24 hours, not current conditions. - Has Learning Mode icon disappeared from the display? Learning Mode must complete before forecast and pressure will be accurate. - Allow unit to run continuously for 33 days. Battery removal or resetting the display will restart Learning Mode. After 14 days, forecast should be fairly accurate; however, Learning Mode calibrates for a total of 33 days.

Problem	Possible Solution
DISPLAY SCREEN NOT WORKING	- Check that the power adapter is plugged into the display and an electrical outlet.• Check that the batteries are installed correctly. Batteriesmay need to be replaced.• Reset the display by pressing and holding the RESET button, located in the battery compartment of the display. Date and time will need to be entered after a rese Check that the power adapt r is plugged into the display Band an electrical outlet. Check that the batteries are - installed correctly. Batteries may need to be replaced. - Reset the display by pressing and holding the RESET utton, located in the battery compartment of the display. Date and time will need to be entered after a rese

Problem	Possible Solution
DISPLAY NOT CONNECTING TO WI-FI	- Your internet router and display must be within range of each other. Relocate your display closer to your router. - Ensure the network name (SSID) and password you've entered are correct. **NOTE:** Both network name and password are case sensitive. - Make sure DCHP is enabled on your router. Most routers have DHCP enabled by default. - nsure your router is broadcasting a 2.4 GHz network. TheM weather station display is equipped with a Wi-Fi module that only supports 2.4 GHz wireless networks. - Reset the display by pressing and holding the RESET button for 10 seconds, located in the battery compartment of the display. Date and time will need to be entered after a reset.

INACCURATE TEMPERATURE OR HUMIDITY	• Make sure both the display and sensor are placed out of direct sunlight and away from any heat sources or vents (see page 8). • Make sure both units are M positioned away from moisture sources (see page 8).
INACCURATE WIND READINGS	• What is wind reading being compared to? Pro weather stations are typically mounted at 30 ft or higher . Make sure to compare data using a sensor positioned at the same mounting height. • Check location of the sensor. Ensure it's mounted a minimum of 5 ft in the air with no obstructions around it (within several feet). • Ensure wind cups are spinning reely. If they hesitateN or stop, try lubricating with graphite powder or spray lubricant.

Specifications

INDOOR TEMPERATURE RANGE	32˚F to 122˚F; 0˚C to 50˚C
INDOOR HUMIDITY RANGE	1% to 99%
WIRELESS RANGE	330 ft/100 m depending on home construction materials
POWER	5V power adapter 3 x AAA alkaline batteries (optional)
DATA REPORTING	Indoor Temperature & Humidity: 60 second updates
WI-FI	802.11.b/g/n Connectivity requires an active 2.4 GHz broadband internet connection

Customer Support

AcuRite customer support is committed to providing you with best-in-class service.

For assistance, please have the model number of this product available and visit **acurite.com/support**. There, you can find:

- Feedback & Idea Submission Forms
- Product Registration

IMPORTANT

PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE

PRODUCT REGISTRATION
Register online to receive 1-year warranty protection **www.acurite.com/product-registration**

Limited 1-Year Warranty

AcuRite is a wholly owned subsidiary of Chaney Instrument Company. For purchases of AcuRite products, AcuRite provides theB benefits and services set forth herein.

For purchases of Chaney products, Chaney provides the benefits and services set forth herein. We warrant that all products we manufacture under this warranty are of good material and workmanship and, when properly installed and operated, will be free of defects for a period of one year from the date of purchase.

Any product which, under normal use and service, is proven to breach the warranty contained herein within ONE YEAR from date of sale will, upon examination by us, and at our sole option, be repaired or replaced by us. Transportation costs and charges for returned goods shall be paid for by the purchaser. We hereby disclaim all responsibility for such transportation costs and charges. This warranty will not be breached, and we will give no credit for products which have received normal wear and tear not affectin   the functionality of the product, been damaged (including by acts of nature), tampered, abused, improperly installed, or repaired or altered by others than our authorized representatives.

Remedy for breach of this warranty is limited to repair or replacement of the defective item(s). If we determine that repair or replacement is not feasible, we may, at our option, refund the amount of the original purchase price.

THE ABOVE-DESCRIBED WARRANTY IS THE SOLE WARRANTY FOR THE PRODUCTS AND IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. ALL OTHER WARRANTIES OTHER THAN THE EXPRESS WARRANTY SET FORTH HEREIN ARE HEREBY EXPRESSLY DISCLAIMED,N INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

We expressly disclaim all liability for special, consequential, or incidental damages, whether arising in tort or by contract from any breach of this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

We further disclaim liability from personal injury relating to its products to the extent permitted by law. By acceptance of any of our products, the purchaser assumes all liability for the consequences arising from their use or misuse. No person, firm or corporation is authorized to bind us to any other obligation or liability in connection with the sale of our products. Furthermore, no person, firm or corporation is authorized to modify or waive the terms of this warranty unless done in writing and signed by a duly authorized agent of ours.

In no case shall our liability for any claim relating to our products, your purchase or your use thereof, exceed the original purchase price paid for the product.

Applicability of Policy

This Return, Refund, and Warranty Policy applies only to purchases made in the United States and Canada. For purchases made in a country other than the United States or Canada, please consult the policies applicable to the country in which you made your purchase. Additionally, this Policy applies only to the original purchaser of our products. We do cannot and do not offer any return, refund, or warranty services if you buy products used or from resale sites such as eBay or Craigslist.

Governing Law

This Return, Refund, and Warranty Policy is governed by the laws of the United States and the State of Wisconsin. Any dispute relating to this Policy shall be brought exclusively in the federal or State courts having jurisdiction in Walworth County, Wisconsin; and purchaser consents to jurisdiction within the State of Wisconsin.

FCC Information

This device complies with part 15 of 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.

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment
NOTE: 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 ortelevision 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 the receiver.
- Connect the equipment into an outlet on a circuit different from that to

  which the receiver is connected.
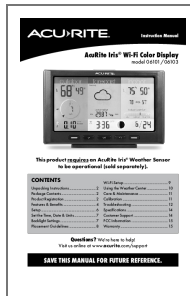- Consult the dealer or an experienced radio/TV technician for help.

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. 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 received, including interference

   that may cause undesired operation of the device

Documents / Resources

ACURITE 06101 Wi-Fi Color Display [pdf] Instruction Manual
06101, 06103, Wi-Fi Color Display, 06101 Wi-Fi Color Display, Color Display, Display

References

- ▶ **Customer Support & FAQs | AcuRite Weather Monitoring**
- ▶ **AcuRite Weather Monitoring | #1 Weather Station Brand in North America**
- ▶ **Patented Technology | AcuRite**
- ▶ **Customer Support & FAQs | AcuRite Weather Monitoring**
- ▶ **My AcuRite**

Manuals+,