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Instruction Manual Display for 5-in-1 Weather Sensor model 06022 Package Contents 1. Display with Tabletop Stand 2. Power Adapter 3. Instruction Manual This product requires an AcuRite 5-in-1 Weather Sensor (sold separately) to be operational. IMPORTANT PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE PRODUCT REGISTRATION Register online to receive 1 year warranty protection www.AcuRite.com Questions? Contact Customer Support at (877) 221-1252 or visit www.AcuRite.com.Features & Benefits Display 1 2 31 4 30 29 28 27 26 5 6 7 8 9 10 11 12 25 24 23 13 14 22 15 16 21 20 18 19 2 18 171. 2. 3. 4. Previous 2 Wind Directions Current Wind Speed Current Wind Direction Current Indoor Temperature 19. SET Button For setup preferences. 20. SELECT Button Press to change the WEATHER SELECT category data being displayed. Arrow icon indicates direction temperature is trending. 21. Weather TickerTM 22. Heat Index/ Wind Chill Alert Indicator 5. Display Low Battery Indicator 6. Peak Wind Speed Activates when heat index rises over 90ºF (32ºC) or when wind chill drops below -17ºF (-27ºC).1 2 3 6 5 4 7 BACK OF DISPLAY 1. Integrated Hang Hole For easy wall mounting. 2. Button For dimmer control while using power adapter. Activates momentary backlight while on battery power. 6. A-B-C Switch ID code that must match 5-in-1 sensor’s A-B-C switch to ensure units synchronize. 3. Plug-in for Power Adapter 4. Removable Tabletop Stand 7. 5. CLEAR ALL/RESET Button Power Adapter 8. Battery Compartment Cover Press and HOLD for 10 seconds for full reset to factory defaults.SETUP Display Setup AcuRite recommends high quality alkaline batteries for the best product performance. Heavy duty or rechargeable batteries are not recommended. 1 Set the A-B-C Switch The A-B-C switch is located inside the battery compartment. It can be set to A, B or C. However, you must select the same letter choices for both the sensor and the display in order for the units to synchronize.Set the Time, Date & Units Press the “ SE T ” 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 “T“ or “V“ buttons (press and HOLD to fast adjust). To save your adjustments, press and release the “SET” button again to adjust the next preference.Placement for Maximum Accuracy AcuRite sensors are sensitive to surrounding environmental conditions. Proper placement of both the display and the sensor are critical to the accuracy and performance of this product. Display Placement Place the display in a dry area free of dirt and dust. To ensure accurate temperature measurement, place out of direct sunlight and away from heat sources or vents. Display stands upright for tabletop use or is wall-mountable.Weather Select Weather Select displays data including wind chill, dew point, heat index, feels like, days with rain this month, and days since last recorded rainfall. To change the “Weather Select“ category shown, press the “SELECT” button on the front of the display. Barometric Pressure Subtle variations in barometric pressure greatly affect the weather. This weather center displays the current pressure with an arrow icon to indicate the direction the pressure is trending (FALLING, STEADY, or RISING).Weather Ticker ™ The Weather Ticker automatically flashes your real-time weather information and alerts as text in the lower part of the display screen. The possible WEATHER TICKER messages are as follows: HEAT INDEX-XX WINDCHILL-XX DEW POINT-XX IT FEELS LIKE XX OUTSIDE 7 DAY HIGH TEMP. XX- MM/DD 7 DAY LOW TEMP. XX- MM/DD 30 DAY HIGH TEMP. XX- MM/DD 30 DAY LOW TEMP. XX- MM/DD ALL TIME HIGH TEMP. XXX...RECORDED MM/DD/YY ALL TIME LOW TEMP. XXX...RECORDED MM/DD/YY 24 HOUR TEMP.Troubleshooting Problem Possible Solution Inaccurate temperature or humidity •M ake sure both the display and 5-in-1 sensor are placed away from any heat sources or vents (see page 7). •M ake sure both units are positioned away from moisture sources (see page 7). •M ake sure 5-in-1 sensor is mounted at least 5 ft off of the ground. • Calibrate indoor and outdoor temperature and humidity (see page 11).Care & 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 indoor / outdoor temperature and humidity readings, 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.Specifications DISPLAY’S BUILT-IN TEMPERATURE SENSOR RANGE 32ºF to 122ºF; 0ºC to 50ºC DISPLAY’S BUILT-IN HUMIDITY SENSOR RANGE 1% to 99% RH WIND SPEED 0 to 99 mph; 0 to 159 km/h WIND DIRECTION INDICATORS 16 points RAINFALL 0.01 inches (0.Customer Support AcuRite customer support is committed to providing you with best-inclass service. For assistance, please have the model number of this product available and contact us in any of the following ways: (877) 221-1252 Visit us at www.AcuRite.Weather Stations Temperature & Humidity Weather Alert Radio Kitchen Thermometers & Timers Clocks It’s More than Accurate, it’s AcuRite offers an extensive assortment of precision instruments, designed to provide you with information you can depend on to Plan your day with confidence™. www.AcuRite.com Printed in China 06022M INST 061716 ©Chaney Instrument Co. All rights reserved. AcuRite is a registered trademark of the Chaney Instrument Co., Lake Geneva, WI 53147.Page 22Features & BenetsDisplay1 32 41272124252628302971051215131469811171819182022231 6Page 331. Previous 2 Wind Directions2. Current Wind Speed3. Current Wind Direction4. Current Indoor Temperature Arrow icon indicates direction temperature is trending.5. Display Low Battery Indicator6. Peak Wind Speed Highest speed from the last 60 minutes.7. Current Indoor Humidity Arrow icon indicates direction humidity is trending.8. Wind Speed Alert Indicator Activates when wind speed is over 50 mph.9. Clock10. Rainfall Alert Indicator Indicates rainfall of more than 1” (25 mm) of rain in 2 hours or less.11. AUTO DIM Indicator Indicates display is in auto-dimming brightness mode (see page 6).12. Current Rainfall Total Accumulates data during rainfall.13. 12 to 24 Hour Weather Forecast Self-Calibrating Forecasting pulls data from your 5-in-1 sensor to generate your personal forecast.14. Storm Alert Indicator Activates when barometric pressure drops.15. Month/Year/All-Time Rainfall16. Current Barometric Pressure Arrow icon indicates direction pressure is trending.17. RAINFALL Button Press to change the RAINFALL data being displayed (Month, Year, All-Time).18. T and VButtons For setup preferences.19. SET Button For setup preferences.20. SELECT Button Press to change the WEATHER SELECT category data being displayed.21. Weather TickerTM22. Heat Index/ Wind Chill Alert Indicator Activates when heat index rises over 90ºF (32ºC) or when wind chill drops below -17ºF (-27ºC).23. Learning Mode Icon Disappears after weather forecast self-calibration is complete.24. WEATHER SELECT Displays heat index, dew point, wind chill, feels like, days with rain this month, and days since last recorded rainfall.25. Date26. Current Outdoor Humidity Arrow icon indicates direction humidity is trending.27. Average Wind Speed Average wind speed over the past 2 minutes.28. 5-in-1 Sensor Signal Strength29. Sensor Low Battery Indicator30. Current Outdoor Temperature Arrow icon indicates direction temperature is trending.Page 44BACK OF DISPLAY1. Integrated Hang Hole For easy wall mounting.2. Button For dimmer control while using power adapter. Activates momentary backlight while on battery power.3. Plug-in for Power Adapter4. Removable Tabletop Stand5. CLEAR ALL/RESET Button Press and HOLD for 10 seconds for full reset to factory defaults.6. A-B-C Switch ID code that must match 5-in-1 sensor’sA-B-Cswitchtoensure units synchronize.7. Power Adapter8. Battery Compartment Cover (not shown)1324657Page 55PLEASE 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 an 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 re, as batteries may 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. DO NOT short-circuit the supply terminals.IMPORTANT: Batteries are a backup power source to preserve records in the event of a power outage. Power adapter is the recommended primary power source to enjoy the full functionality of this product.Display SetupAcuRite recommends high quality alkaline batteries for the best product performance. Heavy duty or rechargeable batteries are not recommended.3Install Backup Batteries (optional) 6 AA Batteries 2Plug in Power AdapterA B C1Set the A-B-C SwitchThe A-B-C switch is located inside the battery compartment. It can be set to A, B or C. However, you must select the same letter choices for both the sensor and the display in order for the units to synchronize.1Install or Replace Batteries (optional)Insert 6 x AA alkaline batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment. 3Plug Power Adapter into Electrical Outlet2SETUPPage 66Set the Time, Date & UnitsPress 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.Toadjustthecurrentlyselected(ashing)item,pressandreleasethe“T“ or “V“ buttons (press and HOLD to fast adjust).To save your adjustments, press and release the “SET” button again to adjust the next preference. The preference set order is as follows:TOP DISPLAY: CLOCK HOUR CLOCK MINUTE CALENDAR MONTH CALENDAR DATE CALENDAR YEAR TEMPERATURE UNITS (ºF or ºC) WIND SPEED UNITS (MPH, km/h, Knots) RAINFALL UNITS (in or mm) PRESSURE UNITS (inHg or hPa)TICKER DISPLAY: LANGUAGE (English, French, Spanish) WEATHER TICKER SPEED (SLOW, MEDIUM, FAST) You will automatically exit SET MODE if no buttons are pressed for 20 seconds. Enter SET MODE at any time by pressing the “SET” button.Display Backlight SettingsThisweatherstation’scolordisplayfeaturesthreedifferentlightingsettings:High (100%) brightness, Medium (60%) brightness and Low (30%) brightness.Using battery power alone, the backlight is available momentarily for 10 seconds by pressing the “ ” button.When display is powered with the power adapter, backlight remains on at 100% brightness. Press “ ” button once to dim to 60% brightness; press again to dim to 30%, press a 3rd time to enter “AUTO DIM” mode. “AUTO DIM” will appear below the clock.AUTO DIM MODE: Automatically adjusts display brightness based on time of day & year. MARCH 11- NOVEMBER 46:00 a.m. - 9:00 p.m. = 100% brightness9:01 p.m. - 5:59 a.m.= 30% brightnessNOVEMBER 5 - MARCH 107:30 a.m. - 7:00 p.m.= 100% brightness7:01 p.m. - 7:29 a.m. = 30% brightnessPage 7©Chaney Instrument Co. All rights reserved. AcuRite is a registered trademark of the Chaney Instrument Co., Lake Geneva, WI 53147. All other trademarks and copy-rights are the property of their respective owners. AcuRite uses patented technology. Visit www.AcuRite.com/patents for details.Printed in China06022M INST 061716It’s More than Accurate, it’s AcuRite offers an extensive assortment of precision instruments, designed to provide you with information you can depend on to Planyourdaywithcondence™.www.AcuRite.comWeather StationsTemperature & HumidityWeather Alert RadioKitchen Thermometers & TimersClocks AcuRite 01512 01531 5-in-1 Color PRO Weather Station Manual SAVE THIS MANUAL FOR FUTURE REFERENCE. 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 Display with Tabletop Stand 5-in-1 Sensor Sensor Mounting Bracket Mounting Hardware Power Adapter Instruction Manual PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE PRODUCT REGISTRATION Register online to receive 1 year warranty protection www.AcuRite.com Features & Benefits 5-in-1 SENSOR Rainfall Collector Funnel Solar Cell Panel Converts sunlight into power to run internal aspirating fan. Internal Aspirating Fan (not shown) Draws ambient air into sensor to reduce solar radiation heating, resulting in more accurate temperature measurement. A-B-C Switch ID code that must match display's A-B-C switch to ensure units synchronize. Battery Compartment Temperature & Humidity Sensors (internal) Mounting Point Wind Speed Anemometer Wind Direction Vane Mounting Bracket Mounting Hardware Qty Diameter Length 5 #4 3/4" 1 #4 1/2" 1 #6 1/2" Includes anchors & screws. Debris Filter Pre-installed to prevent debris from entering the rain gauge. Display Unit Previous 2 Wind Directions Current Wind Speed Current Wind Direction Current Indoor Temperature Arrow icon indicates direction temperature is trending. Display Low Battery Indicator Peak Wind Speed Highest speed from the last 60 minutes. Current Indoor Humidity Arrow icon indicates direction humidity is trending. Wind Speed Alert Indicator Activates when wind speed is over 50 mph. Clock Rainfall Alert Indicator Indicates rainfall of more than 1" (25 mm) of rain in 2 hours or less. AUTO DIM Indicator Indicates display is in auto-dimming brightness mode. Current Rainfall Total Accumulates data during rainfall. 12 to 24 Hour Weather Forecast Self-Calibrating Forecasting pulls data from your 5-in-1 sensor to generate your personal forecast. Storm Alert Indicator Activates when barometric pressure drops. Month/Year/All-Time Rainfall Current Barometric Pressure Arrow icon indicates direction pressure is trending. RAINFALL Button Press to change the RAINFALL data being displayed (Month, Year, All-Time). Button For setup preferences. SET Button For setup preferences. Button For setup preferences. SELECT Button Press to change the WEATHER SELECT category data being displayed. Weather Ticker™ Heat Index/ Wind Chill Alert Indicator Activates when heat index rises over 90ºF (32ºC) or when wind chill drops below -17ºF (-27ºC). Learning Mode Icon Disappears after weather forecast self-calibration is complete. WEATHER SELECT Displays heat index, dew point, wind chill, feels like, days with rain this month, and days since last recorded rainfall. Date Current Outdoor Humidity Arrow icon indicates direction humidity is trending. Average Wind Speed Average of all speeds over the past 2 minutes. 5-in-1 Sensor Signal Strength Sensor Low Battery Indicator Current Outdoor Temperature Arrow icon indicates direction temperature is trending. Back of Display Unit Integrated Hang Hole For easy wall mounting. Button Dimmer control while using power adapter. Activates momentary backlight while on battery power. Plug-in for Power Adapter Removable Tabletop Stand CLEAR ALL/RESET Button Press to clear record currently being viewed. Press AND HOLD for more than 10 seconds for full reset to (not shown) factory defaults. A-B-C Switch ID code that must match 5-in-1 sensor's A-B-C switch to ensure units synchronize. Power Adapter Battery Compartment Cover (not shown) Setup 5-in-1 Sensor Setup Set the A-B-C Switch Locate the A-B-C switch inside the battery compartment. Set the A-B-C switch to A, B or C. You must select the same letter choices for both the sensor and the display in order for the units to synchronize. Install or Replace Batteries Batteries MUST be installed for this product to operate. AcuRite recommends high quality alkaline or lithium batteries for the best product performance. Heavy duty or rechargeable batteries are not recommended. The 5-in-1 sensor requires lithium batteries in low temperature conditions. Cold temperatures can cause alkaline batteries to function improperly. Use lithium batteries in the 5-in-1 sensor for temperatures below -4ºF / -20ºC. Slide off the battery compartment cover. Insert 4 x AA batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment. Replace the battery cover. Remove Rain Gauge Stabilizer Locate and remove the rain gauge stabilizer (plastic tab) taped into the bottom of the sensor. The rain gauge will not function until this is removed. Display Unit Setup AcuRite recommends high quality alkaline batteries for the best product performance. Heavy duty or rechargeable batteries are not recommended. Set the A-B-C Switch The A-B-C switch is located inside the battery compartment. It can be set to A, B or C. However, you must select the same letter choices for both the sensor and the display unit in order for the units to synchronize. Plug Power Adapter into Electrical Outlet Install or Replace Batteries (optional) Insert 6 x AA alkaline batteries into the battery compartment, as shown. Follow the polarity (+/-) diagram in the battery compartment. Batteries are a backup power source to preserve records in the event of a power outage. Power adapter is the recommended primary 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 an 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 fre, as batteries may 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. DO NOT short-circuit the supply terminals. 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 again to adjust the next preference. The preference set order is as follows:TOP DISPLAY: CLOCK HOUR CLOCK MINUTE CALENDAR MONTH CALENDAR DATE CALENDAR YEAR TEMPERATURE UNITS (ºF or ºC) WIND SPEED UNITS (MPH, KPH, Knots) RAINFALL UNITS (in or mm) PRESSURE UNITS (inHg or hPa) TICKER DISPLAY: LANGUAGE (English, French, Spanish) WEATHER TICKER SPEED (SLOW, MEDIUM, FAST) You will automatically exit SET MODE if no buttons are pressed for 20 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. Using battery power alone, the backlight is available momentarily for 10 seconds by pressing the "" button. When display is powered with the power adapter, backlight remains on at 100% brightness. Press " " button once to dim to 60% brightness; press again to dim to 30%, press a 3rd time to enter "AUTO DIM" mode. "AUTO DIM" will appear below the time. AUTO DIM MODE: Automatically adjusts display brightness based on time of day & year. MARCH 11- NOVEMBER 4 6:00 a.m. - 9:00 p.m. = 100% brightness 9:01 p.m. - 5:59 a.m. = 30% brightness NOVEMBER 5 - MARCH 10 7:30 a.m. - 7:00 p.m. = 100% brightness 7:01 p.m. - 7:29 a.m. = 30% brightness Placement for Maximum Accuracy AcuRite sensors are sensitive to surrounding environmental conditions. Proper placement of both the display and the sensor are critical to the accuracy and performance of this product. Display Placement Place the display in a dry area free of dirt and dust. To ensure accurate temperature measurement, place out of direct sunlight and away from heat sources or vents. Display stands upright for tabletop use or is wall-mountable. 5-in-1 Sensor Placement The 5-in-1 sensor is designed to remain outdoors all year long. Choose an open location with no obstructions above or around the sensor for the most accurate measurements. Important Placement Guidelines Display and sensor must be within 330 feet (100 m) of each other. MAXIMIZE WIRELESS RANGE Place units away from large metallic items, thick walls, metal surfaces, or other objects that may limit wireless communication. PREVENT WIRELESS INTERFERENCE Place both units at least 3 feet (.9 m) away from electronic devices (TV, computer, microwave, radio, etc.). LOCATE AWAY FROM HEAT SOURCES Position sensor away from heaters, air conditioners, chimneys, exhaust vents, asphalt and concrete (surfaces that radiate heat). LOCATE AWAY FROM HUMIDITY SOURCES Avoid installing the sensor near pools, spas, or other bodies of water. Water sources may impact humidity accuracy. LOCATE AWAY FROM SPRINKLER HEADS DO NOT install the sensor where it will be sprayed by a sprinkler system. This may force water inside the sensor. LOCATE AWAY FROM WIND & RAIN OBSTRUCTIONS DO NOT mount the sensor with obstructions around it. Consider a location that is a wide open area, with few structures around to ensure accurate wind measurement. Visit us online to view installation photos and video, or learn more about AcuRite technology: www.AcuRite.com/5in1 View Video 5-in-1 Sensor Installation Guidelines INSTALLATION HEIGHT Mount the sensor at a minimum height of 5 feet (1.5 meters) off the ground, in an open area. Higher is better for wind measurements - The National Weather Service recommends 33 feet high! MOUNTING OPTIONS The included mounting bracket it designed to screw directly onto wooden posts or surfaces that are 2x4 or larger. The sensor can also be mounted directly to common 3/4" steel pipe (available at hardware stores and home centers). LEVEL INSTALLATION Use the bubble level (included on top of sensor) to ensure level installation for accurate wind measurement. SOLAR CELL INSTALLATION Install the sensor with the solar cell facing SOUTH. This ensures the cell receives as much sun as possible and orients wind direction. 5-in-1 Sensor Installation Fasten mounting base (included) to a post or pole (not included) using the 4 longer screws included in the hardware bag. Insert the mounting base into the hole on the bottom of the sensor. Make sure the arrows on the top of the sensor are pointed in the proper direction and the bubble level is centered. The solar cell should be facing south to properly orient the wind direction. Fasten the sensor into the mounting base using the 2 shorter screws included in the hardware bag. The 5-in-1 sensor is now ready to use. Clear Data Collected During Installation When installation is complete, press and HOLD "CLEAR ALL/RESET" button, located on the back of the display inside the battery compartment, to clear erroneous data from the display. Basic Setup is Complete The 5-in-1 sensor will now synchronize with the display. It may take a few minutes for synchronization to complete. If both or one of the units appear to be functioning improperly, please refer to the troubleshooting section. OPERATION Using the Professional Weather Center Learning Mode Self-Calibrating Forecasting use 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 this 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 (flashing=stormy) SNOW LIKELY SNOW / RAIN MIX LIKELY CHANCE OF RAIN CLOUDY View the complete list of icons at www.AcuRite.com/acurite-icons Weather Select Weather Select displays data including wind chill, dew point, heat index, feels like, days with rain this month, and days since last recorded rainfall. To change the "Weather Select" category shown, press the "SELECT" button on the front of the display. Barometric Pressure Subtle variations in barometric pressure greatly affect the weather. This weather center displays the current pressure with an arrow icon to indicate the direction the pressure is trending (FALLING, STEADY, or RISING). Rainfall Tracking This weather station features enhanced tracking of historical rainfall data. Rain accumulation data is recorded for today, over all-time, by year, by month, and by rainfall event. Press the "RAINFALL" button to review rainfall records. The icon is shown on the display while historical data is being viewed. Records are shown in the following order: PREVIOUS RAINFALL #1* PREVIOUS RAINFALL #2* PREVIOUS RAINFALL #3* CURRENT MONTH TOTAL RAINFALL PREVIOUS MONTH TOTAL RAINFALL 2 MONTHS AGO TOTAL RAINFALL CURRENT YEAR TOTAL RAINFALL PREVIOUS YEAR TOTAL RAINFALL ALL-TIME TOTAL RAINFALL (date shown is start date of the all-time total; the date the display was powered on) TOTAL RAINFALL FOR DATE SHOWN TOTAL RAINFALL FOR MONTH SHOWN CURRENT YEAR TOTAL RAINFALL PREVIOUS YEAR TOTAL RAINFALL ALL-TIME TOTAL RAINFALL *Previous rainfall is the amount of rain recorded from 12:00am to 11:59pm on the date shown. Weather Ticker™ The Weather Ticker automatically flashes your real-time weather information and alerts as text in the lower part of the display screen. The possible WEATHER TICKER messages are as follows: HEAT INDEX-XX WINDCHILL-XX DEW POINT-XX IT FEELS LIKE XX OUTSIDE 7 DAY HIGH TEMP. XX- MM/DD 7 DAY LOW TEMP. XX- MM/DD 30 DAY HIGH TEMP. XX- MM/DD 30 DAY LOW TEMP. XX- MM/DD ALL TIME HIGH TEMP. XXX...RECORDED MM/DD/YY ALL TIME LOW TEMP. XXX...RECORDED MM/DD/YY 24 HOUR TEMP. CHANGE +XX ALL TIME HIGH WIND XX MPH...RECORDED MM/DD/YY 7 DAY AVERAGE WIND XX MPH TODAY'S AVERAGE WIND XX MPH MOON- NEW MOON- WAXING CRESCENT MOON- FIRST QUARTER MOON- WAXING GIBBOUS MOON- FULL MOON- WANING GIBBOUS MOON- WANING CRESCENT INDOOR HUMIDITY OK INDOOR HUMIDITY HIGH INDOOR HUMIDITY LOW NEW LOW TEMP. RECORD XX NEW HIGH TEMP. RECORD XX NEW WIND RECORD TODAY XX CURRENT RAINFALL X.XX/HR. RAIN EVENT STARTED XX HRS. AGO SENSOR BATTERIES LOW DISPLAY BATTERIES LOW SENSOR SIGNAL LOST...CHECK BATTERIES AND PLACEMENT CAUTION- HEAT INDEX IS XXX CAUTION- WIND CHILL IS XXX CALIBRATION Troubleshooting Problem Possible Solution no bars Relocate the display and/or the 5-in-1 sensor. The units must be within 330 ft (100 m) of each other. Make sure both units are placed at least 3 feet (.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 -4ºF/-20ºC). 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. Synchronize the units: Bring both the sensor and display indoors and remove power adapter/batteries from each. Reinstall batteries in outdoor sensor. Reinstall power adapter/batteries in display. Let the units sit within a couple feet of each other for a few minutes to gain a strong connection. Flashing of the outdoor temperature may be an indication of wireless interference. Make sure the A-B-C switch in the battery compartments of both the display and sensor are switched to the same letter. You may choose A, B or C; but both units must match to sync up. Sometimes changing to a different channel can help. 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. Make sure both the display and 5-in-1 sensor are placed away from any heat sources or vents. Make sure both units are positioned away from moisture sources. Make sure 5-in-1 sensor is mounted at least 5 ft off of the ground. Calibrate indoor and outdoor temperature and humidity. Check to ensure the rain gauge stabilizer (plastic tab) has been removed from the bottom of the sensor. Clear debris, such as leaves, out of the rain collector funnel and debris screen. Calibrate the Rain Gauge. What is wind reading being compared to? Pro weather stations are typically mounted at 30 ft high or more. 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 freely. If they hesitate or stop try lubricating with graphite powder or spray lubricant. Check that the batteries are installed correctly. Batteries may need to be replaced. Reset the display by pressing and holding the CLEAR ALL/RESET button, located in the battery compartment of the display. Date and time will need to be entered after a reset. If your AcuRite product does not operate properly after trying the troubleshooting steps, visit www.AcuRite.com or call (877) 221-1252 for assistance. Care & 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. 5-in-1 Sensor Care Clean the Sensor Clean with a soft damp cloth. Do not use caustic cleaners or abrasives that will mar the polished surfaces of the rain collection funnel or the solar cell. Scratches will result in decreased performance and reliability. Insect Prevention Insects may cause obstructions and interrupt data by nesting in or on the 5-in-1 sensor. To limit this problem, spray sensor with a household insect repellent. Consult the insect repellent instructions prior to use. Snow & Freezing Weather The 5-in-1 sensor will not be damaged by freezing conditions. NOTE: If the rain collector cup fills with snow and then melts, it will register as rain on the display. Clean the Rain Collector Cup Remove and empty rain collector debris filter. The debris filter is located in the rain collector funnel. Remove from the top by gently squeezing and pulling out. Clean the Wind Vane & Anemometer Remove foreign matter from the outside of the sensor for free movement of the wind vane and anemometer. If needed, use a small amount of spray lubricant, clear silicone or graphite powder on the anemometer for improved movement. Calibration The indoor / outdoor temperature and humidity readings, 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. To access calibration mode, press AND HOLD the "", "SET", and "" buttons simultaneously for at least 5 seconds. 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. 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 20 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 and the power adapter is unplugged. Calibrate the Rain Gauge The rain gauge on the 5-in-1 sensor can be calibrated to improve accuracy.Items Needed: 5-in-1 sensor, display unit, plastic cup, pin, screw driver First, ensure 5-in-1 sensor is perfectly level using built-in bubble level. Place display unit close so you can monitor it during calibration. Make a pin hole in the bottom of a plastic cup. Hold the cup over the rain gauge and fill it with exactly 1 cup (8oz) of water, allowing the water to drip into the rain gauge. You should hear the internal buckets tip and see water drain through the rain gauge. A few seconds after each bucket tip, the display unit displays rainfall in approximately 0.01" or more increments. The cup of water should take more than 20 minutes to empty; a quicker period will result in inaccurate calibration. Try to simulate a normal steady rainfall. When cup is empty of water, display unit should register 1.06" Tips There should be nearly an equal number of water drops (about 25 water drops) between bucket tips. If not, adjust the calibration screws on the bottom of the 5-in-1 sensor until an equal number of water drops are tipping the buckets. Then, restart the calibration procedure. If you don't hear the buckets tipping and see water dripping alternately out of each drain, there may be an issue with the rain gauge or it's adjustment. See Troubleshooting. Adjustment If the rain gauge doesn't register close to 1.06", make an EQUAL adjustment to the two calibration screws on the bottom of the 5-in-1 sensor. Turning screws clockwise increases rainfall; counter clockwise decreases rainfall. To adjust the rainfall reading by 2% turn both screws 1/8 of a turn. To adjust the rainfall reading by 4% turn both screws 1/4 of a turn. To adjust the rainfall reading by 8% turn both screws 1/2 of a turn. Watch the video at www.acurite.com/5n1 Specifications TEMPERATURE RANGE Outdoor: -40ºF to 158ºF; -40ºC to 70ºC Indoor: 32ºF to 122ºF; 0ºC to 50ºC HUMIDITY RANGE Outdoor: 1% to 99% Indoor: 1% to 99% WIND SPEED 0 to 99 mph; 0 to 159 kph WIND DIRECTION INDICATORS 16 points RAINFALL MEASUREMENT 0.01 inches (0.25 mm) and up WIRELESS RANGE 330ft / 100m depending on home construction materials OPERATING FREQUENCY 433 MHz POWER Display: 4.5V, 250mA AC adapter 6 x AA alkaline batteries (optional) Sensor: 4 x AA alkaline or lithium batteries DATA REPORTING Wind Speed: 18 second updates; Direction: 30 seconds Outdoor temperature & humidity: 36 second updates Indoor temperature & humidity: 60 second updates If your AcuRite product does not operate properly, visit www.AcuRite.com or call (877) 221-1252 for assistance. For more information, visit our Knowledge Base at This device complies with part 15 of FCC rules. Operation is subject to the following two conditions: This device may NOT cause harmful interference, and This device must accept any interference received, including interference that may cause undesired operation. 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 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 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: This device may not cause interference, and This device must accept any interference received, including interference that may cause undesired operation of the device. Customer Support AcuRite customer support is committed to providing you with best-inclass service. For assistance, please have the model number of this product available and contact us in any of the following ways: (877) 221-1252 24/7 support at www.AcuRite.com ► Installation Videos ► Instruction Manuals ► Replacement Parts ► Register your Product ► Support User Forum ► Submit Feedback & Ideas PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE PRODUCT REGISTRATION Register online to receive 1 year warranty protection www.AcuRite.com Limited 1 Year Warranty 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. Questions? Contact Customer Support at (877) 221-1252 or visit www.AcuRite.com. ©Chaney Instrument Co. All rights reserved. AcuRite is a registered trademark of the Chaney Instrument Co., Lake Geneva, WI 53147. All other trademarks and copyrights are the property of their respective owners. AcuRite uses patented technology. Visit www.AcuRite.com/patents for details. Installation Guidelines Batteries Maintenance Troubleshooting Temperature, Humidity, Wind Speed, Wind Direction & Rainfall Unlike regional weather predictions from sources like the news or online, AcuRite forecasting products rely on sensors that collect organic data right from your backyard. AcuRite's sensor based weather stations track specific sets of weather related variables, like changes in temperature, humidity, and barometric pressure to generate a forecast with pinpoint accuracy. The AcuRite 5-in-1 sensor is designed to be easy to install and use, without compromising any of the professional weather tracking features you want. It operates wirelessly and contains a temperature / humidity sensor, self-emptying rain collector for measuring rainfall, anemometer and a wind vane. The anemometer measures wind speed, and the wind vane measures wind direction. The 5-in-1 sensor is battery powered and features a solar panel for powering an internal aspirating fan. The internal fan will assist in drawing ambient air through to reduce the heating effects of solar radiation, resulting in a more accurate air temperature measurement. Installation Video Step-by-Step Installation Directions STEP 1: Remove the battery cover located on the bottom of the sensor. STEP 2: Locate the A-B-C switch inside the battery compartment. Set the A-B-C switch to A, B or C. Be sure to choose the same channel that the A-B-C switch on the display is set to. STEP 3: Insert 4 AA batteries into the sensor, following the polarity (+/-) diagram in the battery compartment DO NOT use heavy duty or rechargeable batteries. View battery guidelines below. Close the battery compartment cover. STEP 4: Fasten the mounting base to a post or pole using the 4 longer screws included in the hardware bag. STEP 5: Insert the mounting base into the hole on the bottom of the sensor. Make sure the arrows on the top of the sensor are pointed in the proper direction and the bubble level is centered. STEP 6: Fasten the sensor into the mounting base using the 2 shorter screws included in the hardware bag. STEP 7: Remove and discard the Rain Gauge Stabilizer taped to the bottom of the unit. **FOR ACC