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Davis Weather
Station with
Weather Link
Console

Davls Weather Station with Weather Link Console Instruction Manual

Contents

DaVIS®

Davls Weather Station with Weather Link Console

Specifications

- **Model**: Vantage Vue Sensor Suite
- **Components**: Rain collector, temperature/humidity sensor, anemometer, wind vane
- **Transmission**: Radio transmitter to WeatherLink Console or WeatherLink Live
- **Compatibility**: Vantage Pro2 & Vantage Vue consoles, Davis Weather Envoy, WeatherLink Live

Product Usage Instructions

Installation Process:
Follow these steps to install the Vantage Vue Sensor Suite:

1. Identify a suitable outdoor location for the sensor suite ensuring it has clear access to the sky.
2. Mount the rain collector, temperature/humidity sensor, anemometer, and wind vane as per the provided instructions.
3. Secure the Sensor Interface Module (SIM) within the sensor suite.
4. Connect the SIM to a power source if required.

Data Transmission:
The sensor suite collects weather data and transmits it to compatible consoles wirelessly. Follow these steps:

1. Ensure the sensor suite is powered and transmitting data.
2. Set up your WeatherLink Console or WeatherLink Live to receive data from the sensor suite.
3. Check for interference and adjust the positioning if needed for optimal transmission.

Maintenance:
Regular maintenance will ensure accurate readings. Follow these guidelines:

- Clean debris screens and sensors periodically to prevent any obstructions.
- Check and replace batteries as needed.

- Inspect for any physical damage and address promptly.

FAQ

- **Q: How many consoles can the Vantage Vue sensor suite transmit to?**

  A: The sensor suite can transmit to an unlimited number of consoles.
- **Q: What should I do if I encounter interference with radio or television reception?**

  A: Try adjusting the positioning of the equipment to minimize interference. If the issue persists, contact customer service for further assistance.

Sensor Suite Installation Manual

3465 Diablo Ave., Hayward, CA USA 510.732.9229
www.davisinstuments.com

FCC Part 15 Class B Registration Warning

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 on and off, 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.

Changes or modification not expressly approved in writing by Davis Instruments may void the warranty and void the user's authority to operate this equipment.

- FCC ID: IR2DWW6357
- IC: 3788A-6357
- Hereby, Davis Instruments declares that the radio equipment in this product (models 6242EU, 6242UK, 6357OV) complies with the essential protection requirements of the Radio Equipment Directive 2014/53/EU.
- The complete Declaration of Conformity is on our website at **https://www.davisinstruments.com/legal**. RoHS Compliant.
- Integrated Sensor Suite Installation Manual. Document Number: 07395.607 Rev. A, 11/3/23 For Vantage Vue Weather Stations and Systems
- Vantage Vue®, Vantage Pro2™, WeatherLink® and Weather Envoy™ are trademarks of Davis Instruments Corp., Hayward, CA.
- © Davis Instruments Corp. 2023. All rights reserved. Information in this document subject to change with-out notice. Davis Instruments Quality Management System is ISO 9001 certified.

Introduction

- The Vantage Vue® wireless sensor suite collects outside weather data and sends the data wirelessly to a WeatherLink Console via a low-power radio. The sensor suite is solar-powered and includes a battery back-up.
- The Vantage Vue sensor suite contains a rain collector, temperature/humidity sensor, anemometer, and wind vane. The temperature/humidity sensor is mounted in a passive radiation shield to minimize the impact of solar radiation on sensor readings. The anemometer measures wind speed, and the wind vane measures wind direction.
- The Sensor Interface Module (SIM) is housed within the sensor suite and comprises the "brains" of the Vantage Vue system and the radio transmitter. The SIM collects outside weather data from the sensor suite sensors and transmits that data to your WeatherLink Console or WeatherLink Live.

Note:
Your Vantage Vue sensor suite can transmit to an unlimited number of consoles, so you can purchase additional consoles to use in different rooms. It can also transmit to classic Davis Vantage Pro2 & Vantage Vue consoles, Davis Weather Envoy, as well as WeatherLink Live.

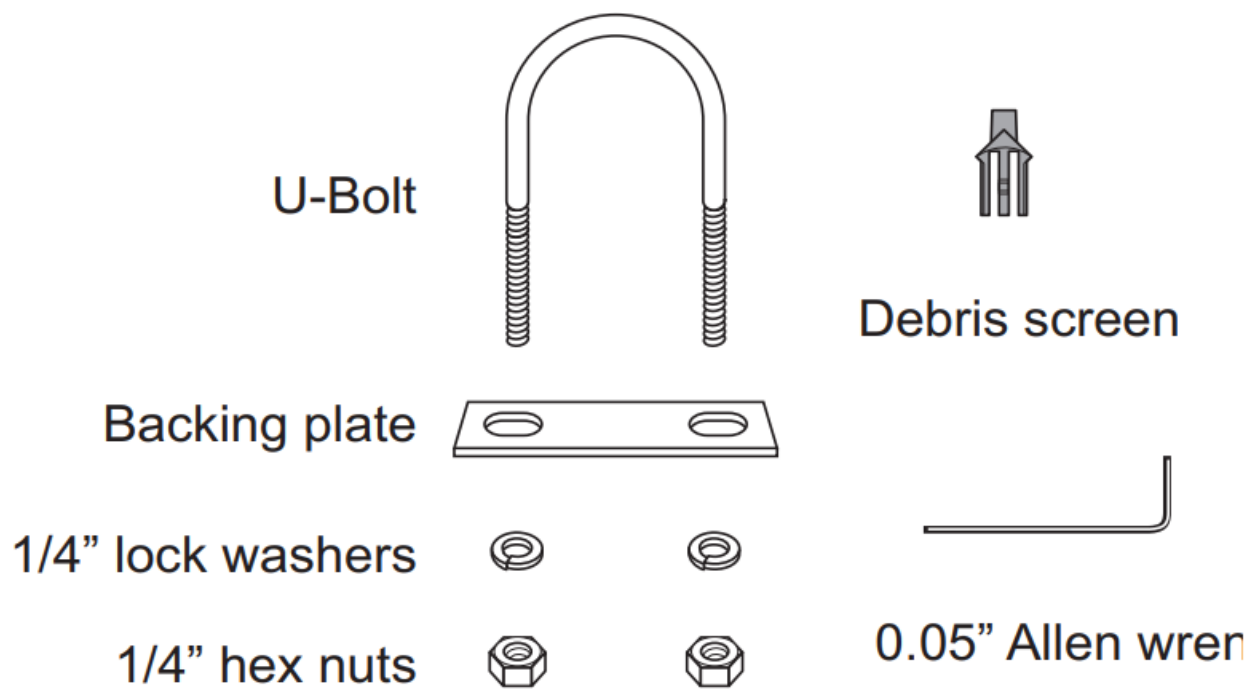## Included Components and Hardware

Vantage Vue Sensor Suite Components
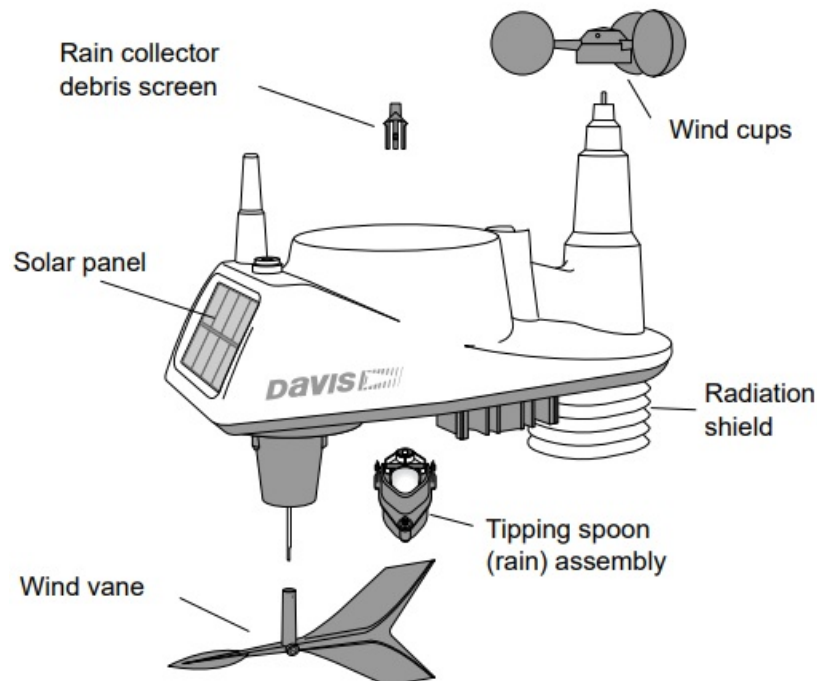
Hardware

Hardware included with the Vantage Vue sensor suite:
Tools Needed

- Adjustable wrench or 7/16" (11 mm) wrench
- Compass or local area map

U-Bolt

Debris screen

Backing plate

1/4" lock washers

1/4" hex nuts

0.05" Allen wren

Note:
If any of the hardware components are missing or not included, contact Customer Service toll free at 1- **800-678-3669** about receiving replacement hardware or other components.

Setup the WeatherLink Console
If you are using a WeatherLink Live or other Davis receiver, please refer to your receiver manual to set it up.

1. Power the Console if it does not already have power.
2. Follow the prompts on the WeatherLink Console to configure it to "listen" to your sensor suite.

Tip:
The WeatherLink User Guide can be found on our in the support section of our website at **https://support.davisinstruments.com** or by scanning this code:

Preparing the Sensor Suite for Installation

Follow the steps in the order; each builds on tasks completed in previous steps. **Note:**
Use a clean, well-lit work table or work area to prepare the sensor suite for installation.

1. Attach the wind cups to the anemometer.
2. Attach the wind vane.
3. Install the rain collector tipping spoon assembly.
4. Install the debris screen in the rain collector.
5. Apply power from the sensor suite battery.

   Additional steps for advanced set up:

    - Verify transmitter ID
    - Change the transmitter ID for wireless communication, if necessary

6. Verify data from the sensor suite.

Attach the Wind Cups to the Anemometer
The Vantage Vue anemometer measures wind speed. The wind cups are mounted on the anemometer shaft on the top of the sensor suite assembly.

1. Gently slide the wind cup assembly down onto the anemometer's stainless steel shaft as far as it will go, as shown.
2. Use the Allen wrench provided to tighten the set screw near the top of the "hub" section of the wind cups, as shown. Ensure that the set screw is screwed in fully and is tight.
3. Pull gently on the hub to ensure that the anemometer is securely fastened to the shaft.
4. Spin the wind cups to make sure they spin freely.

Install cups onto stainless steel shaft.

Tighten set screw with Allen wrench.
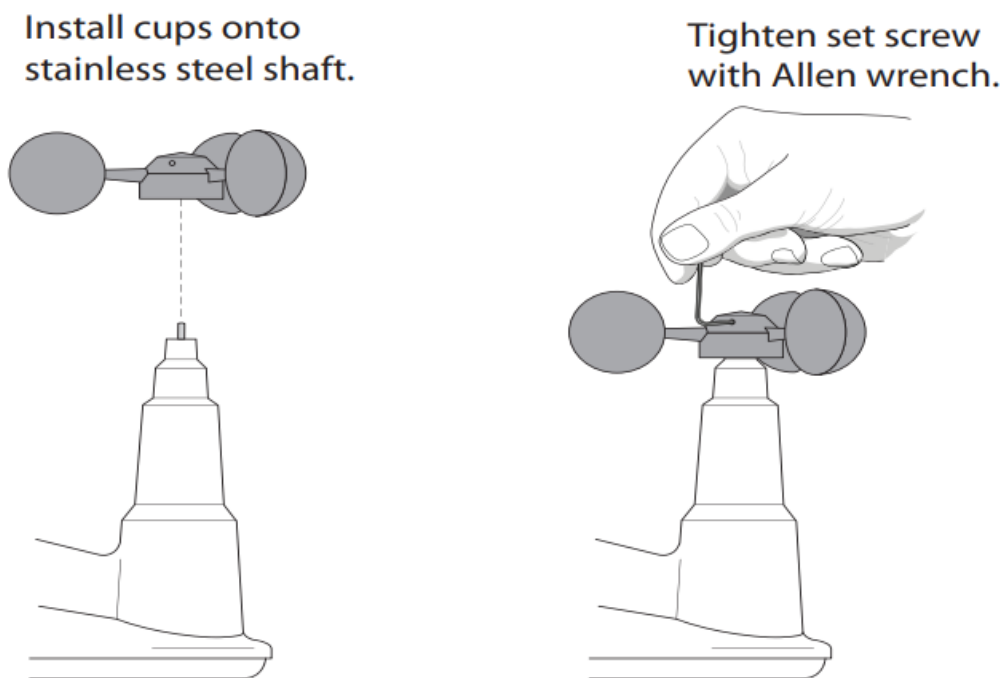
Note:
If the wind cups don't spin freely, loosen the set screw, remove the wind cups from the shaft, and repeat the installation steps.

Attach the Wind Vane
The Vantage Vue wind vane measures wind direction. The wind vane is mounted on a stainless steel shaft on the opposite side of the sensor suite assembly from the wind cups.

1. Hold the sensor suite assembly on its side with the anemometer and radiation shields on your left, the wind vane shaft on your right and the wind cups away from you.
2. When the sensor suite is held in this manner, the wind vane shaft is horizontal, and will orient itself so that its flat side will be facing to the right, as shown.
3. Holding the sensor suite assembly with your left hand, grasp the wind vane with your right hand so that the "arrowhead" end is pointed down.
4. Gently slide the wind vane onto the wind vane shaft, rotating the wind vane slightly left and right if necessary, until the end of the shaft is visible and protrudes slightly from the bottom surface of the wind vane.
5. Secure the wind vane to the shaft by firmly tightening the wind vane set screw with the Allen wrench provided
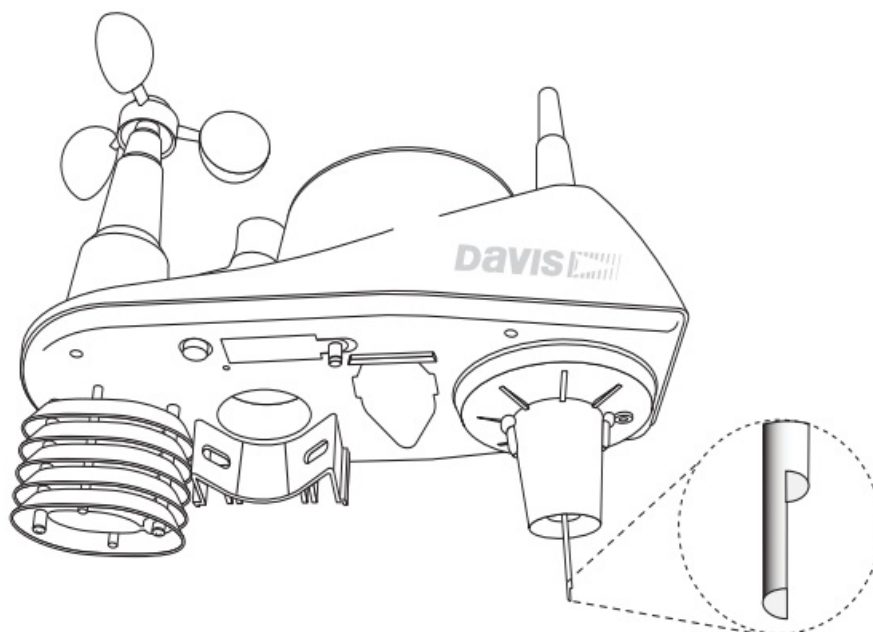
Install the Rain Collector Tipping Spoon Assembly

1. Locate the tipping spoon assembly slot on the underside of the sensor suite base.
2. Insert the wider end of the tipping spoon assembly into the slot first, sliding it under the raised lip of the slot.
3. Fit the narrow end into the slot and tighten the thumbscrew securely.

Tipping spoon assembly slot

Tipping spoon assembly
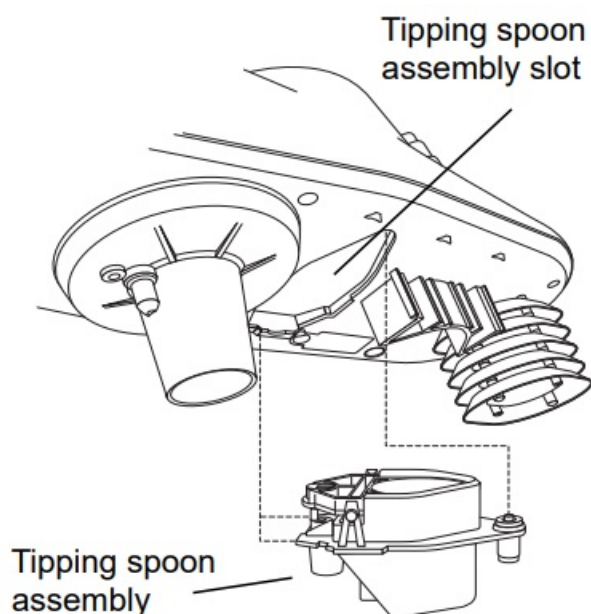
Install the Debris Screen

The Vantage Vue sensor suite rain collector debris screen captures debris that may otherwise clog your rain collector.

1. Locate the small black plastic sensor suite debris screen in your hardware package.

   The debris screen has four small tabs that hold it in place in the base of the rain collector.

2. Holding the sensor suite assembly with one hand, and holding the debris screen by the top, press it into the opening in the rain collector until the tabs snap into the opening.
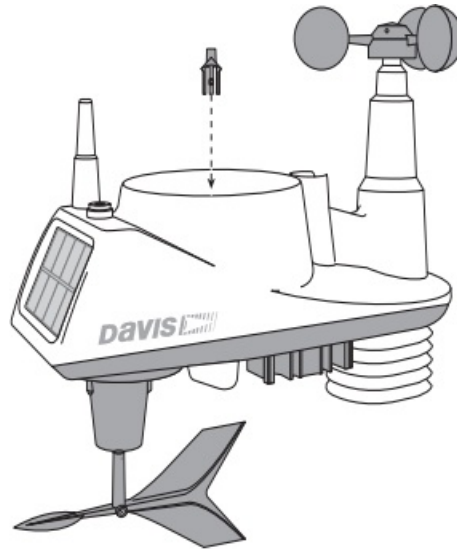

Apply Battery Power

The Vantage Vue sensor suite stores energy from the solar panel for power at night. A 3-volt lithium battery provides a backup power source. The battery compartment is located on the underside of the sensor suite base. The battery is shipped installed in the battery compartment with a battery pull tab to prevent battery power connection until set up.

1. Unscrew the thumbscrew to remove the battery compartment door.

2. Hold the battery so it does not fall out and remove the battery pull tab.

   To verify power, wait 30 seconds then push and release the white transmitter ID button next to the battery compartment. The green transmitter ID LED next to the battery compartment will illuminate when you press the button.
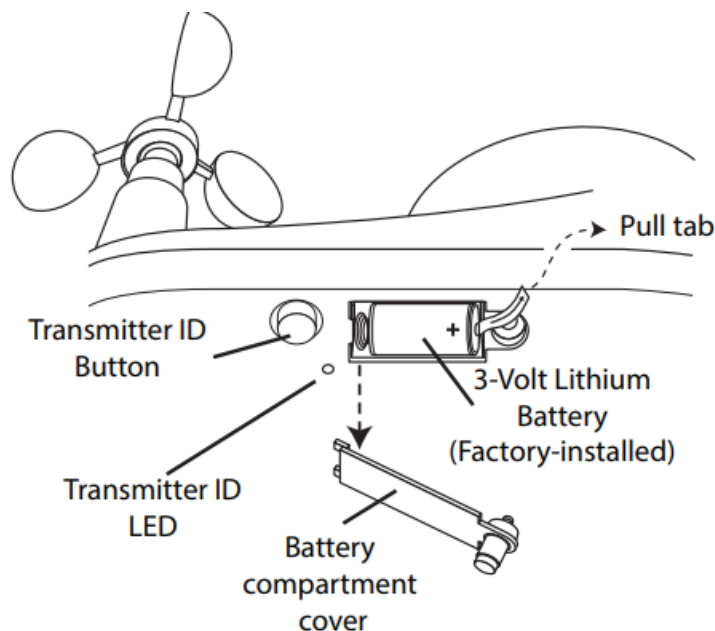
Note:

Press the button once and release it. Do not press it multiple times or hold it down.

When you release the button, the LED will blink once (indicating transmitter ID 1), then begin to flash every 2.5 seconds to show transmission of a data packet. This flashing will stop within a few minutes to conserve battery life.

3. Replace the battery compartment door.

   Note:

   If you have not already set up and powered your WeatherLink console, do so before continuing with the sensor suite installation. For best reception, the console and sensor suite should be at least 10 feet (3 meters) apart.

4. The WeatherLink Console or WeatherLink Live acquires the radio signal and populates data fields. This usually occurs quickly, but in some environmental conditions it can take up to 10 minutes.

Advanced Installations: Confirm the Transmitter ID of the sensor suite

In order to communicate, the console and sensor suite must have the same transmitter ID. At the factory, the ID is set to a default of ID 1. To confirm the transmitter ID of your Vantage Vue sensor suite:

1. Push and release the transmitter ID button once. It will illuminate and go off when you release it.
2. After a short pause, it will blink one or more (up to 8) times. Note the number of times the transmitter ID LED blinks, which indicates its transmitter ID number.

   Unless you have intentionally changed your transmitter ID, the LED should blink one time because the default transmitter ID for the sensor suite is 1. If you have changed the ID, the LED should blink the number of times equal to the ID you have set (i.e., twice for an ID of 2, three times for an ID of 3, etc.). After blinking the transmitter ID, the light will begin to flash every 2.5 seconds, indicating packet transmission.

Transmitter ID button
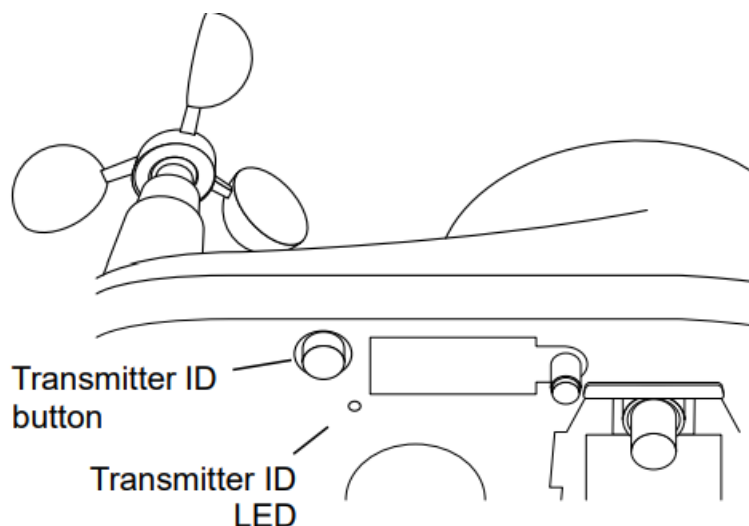
Transmitter ID LED

Note:
If you hold the button too long and accidentally enter the "set new transmitter ID" mode when you did not want to, simply release the button and wait four seconds. As long as you do not press the button again, the original transmitter ID will remain in effect.

Advanced Installations: Set a New Transmitter ID on the Sensor Suite

Note:
In most cases, it will not be necessary to change the transmitter ID. If it is necessary to change the transmitter ID, you must use the same ID for the sensor suite and console.

The Vantage Vue sensor suite transmits weather information to the WeatherLink Console using one of eight selectable transmitter IDs. The default transmitter ID for the sensor suite is 1. Change the transmitter ID if another Davis Instruments wireless weather station is operating nearby and already uses transmitter ID 1, or if you have an optional Anemometer Transmitter Kit with ID 1.
To set a new transmitter ID:

1. Push and hold the transmitter ID button until the LED begins flashing quickly. This indicates it is in the setup mode.
2. Release the button, and the LED will go dark.
3. Push the button the number of times equal to your desired new transmitter ID. That is, if you want to change the ID to 3, push the button three times; for a desired ID of 4, push the button four times.
   After four seconds have elapsed with no further presses, the LED will blink the same number of times as the new transmitter ID. (After blinking the transmitter ID number, the light will begin to flash each time a packet is transmitted, about every 2.5 seconds.)

Verify Data from the Sensor Suite

WeatherLink Console:

1. Watch for outside sensor data to appear on your console. If data does not appear, see the Troubleshooting section of the WeatherLink Console User Guide for more information on troubleshooting reception problems.
   Note:
   It's a good idea to test the WeatherLink Console's reception anywhere that you might want to use or mount it now or in the future. You can see the signal strength on your Console by tapping the Account icon (it looks like a person), choose Device Information. Signal should say "Good" or "Fair"; Connected should say "Yes."

WeatherLink Live:

1. Open your **WeatherLink.com** page.
2. Watch for outside temperature to appear on your page on **WeatherLink.com**
3. If data does not appear, click the Tools icon. (It looks like a wrench.) Choose Health Data. Make sure the DavisTalk RSSI signal strength is above -90.
   Note:
   See the Troubleshooting section of the WeatherLink Live User Manual for information on how to check wireless signal strength and for more information on troubleshooting reception problems

Installing the Sensor Suite

Choosing a Location for the Sensor Suite

The sensor suite assembly includes the rain collector, wind vane, anemometer, temperature and humidity sensors, radiation shield, and SIM housing. You will use the U-bolt and associated nuts and washers that are included with your sensor suite mounting hardware package to install the sensor suite on a pole. (See "Hardware" on page 2.)

To ensure that the Vantage Vue weather station performs at its best, use these guidelines to select the optimum mounting location for the sensor suite. Be sure to take into consideration ease of access for maintenance and wireless transmission range when siting the station.
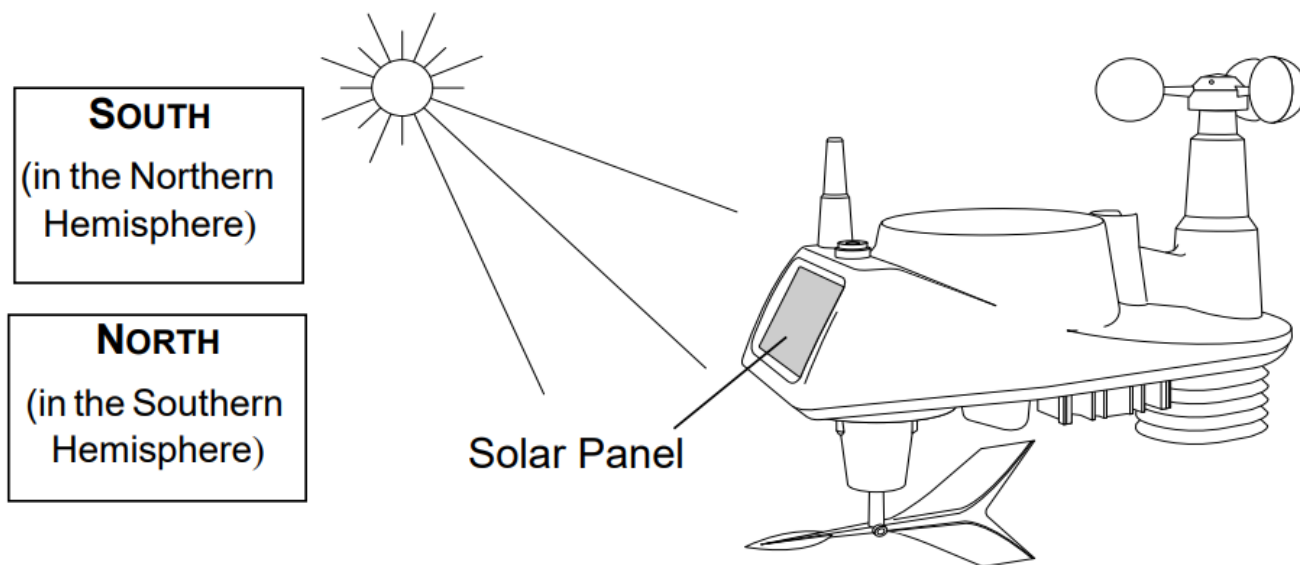
Note:
When selecting a location for installing your sensor suite, especially on a rooftop, make sure it is a location far from power lines. Seek professional help if you are uncertain about the safety of your installation.

Sensor Suite Installation Guidelines

Note:
These siting guidelines reflect an ideal condition. Rarely is it possible to create the perfect installation. The better the siting, the more accurate your data will be.

- Place the sensor suite away from sources of heat such as chimneys, heaters, air conditioners, and exhaust vents.
- Place the sensor suite at least 100′ (30 m) away from any asphalt or concrete roadway that readily absorbs and radiates heat from the sun. Avoid installations near fences or sides of buildings that receive a lot of sun during the day.
- Install the sensor suite as level as possible to ensure accurate rain and wind measurements. Use the built-in bubble level on the top of the sensor suite, just above the solar panel, to make sure the sensor suite is level.
- In the Northern Hemisphere, the solar panel should face south for maximum sun exposure.
- In the Southern Hemisphere, the solar panel should face north for maximum sun exposure.

Note:
The wind direction is calibrated assuming the solar panel is facing south. If you install the sensor suite with the solar panel pointing in a direction other than south, you will need to use the wind direction calibration function in the WeatherLink Console in order to obtain accurate wind direction readings. See WeatherLink Console User Guide for more information.

- Ideally, mount the sensor suite so that it is between 5' (1.5 m) and 7' (2.1 m) above the ground in the middle of a gently sloping or flat, regularly mowed grassy or naturally landscaped area that drains well when it rains. You can also mount the sensor suite on the roof, between 5' (1.5 m) and 7' (2.1 m) above the roof surface. For areas with average maximum yearly snow depths over 3' (0.9 m), mount the sensor suite at least 2' (0.6 m) above this depth.

- Never install the sensor suite where it will be directly sprayed by a sprinkler system.
- Avoid installations near bodies of water such as swimming pools or ponds.
- Do not locate the sensor suite under tree canopies or near the sides of buildings that create "rain shadows." For heavily forested areas, site the sensor suite in a clearing or meadow.
- Site the sensor suite in a location with good sun exposure throughout the day.
- For agricultural applications:
- Install the sensor suite so that it is between 5' (1.5 m) and 7' (2.1 m) above the ground and in the middle of the farm between similar crop types (such as two orchards, two vineyards, or two row crops), if possible.
- Avoid areas exposed to extensive or frequent applications of agricultural chemicals (which can degrade the sensors).
- Avoid installation over bare soils. The sensor suite performs best when installed over well-irrigated, regularly mowed grass
- If the last three guidelines cannot be met, install the sensor suite at the edge of the primary crop of interest.

Siting guidelines that may affect the anemometer

- For optimal wind data, mount the sensor suite so that the wind cups are at least 7' (2.1 m) above obstructions such as trees or buildings that may obstruct wind flow.
- For optimal wind data, you may mount the sensor suite on a roof, keeping in mind ease of access to the sensor suite for maintenance and safety considerations. Ideally, mount it so that the wind cups are at least 7' (2.1 m) above the roof apex.
- The standard for meteorological and aviation applications is to place the anemometer 33' (10 m) above the ground. Seek professional help for this such installation.
- The standard for agricultural applications is to place the wind cups 6' (2 m) above the ground. This is important for evapotranspiration (ET) calculations.

Note:
For roof mounting, and ease of installation, we recommend using the optional tripod (#7716). For other installations, use the Mounting Pole Kit (#7717).

Note:
For more detailed siting suggestions, see Application Note #30 on the Davis Support website (**http://www.davisinstruments.com/support/weather**).

Mounting the Sensor Suite

The Vantage Vue sensor suite can only be mounted on the top of a pole or rod.

Note:
A mounting pole is not included with your Vantage Vue sensor suite and must be purchased separately, either from Davis Instruments or from your local hardware retailer.

Recommended Accessories for Pole Mounting

- Use the Mounting Tripod (#7716) for easiest mounting.
- Use the Mounting Pole Kit (#7717) to raise the installation height of the sensor suite by up to 37.5″ (0.95 m).

General Guidelines for Installing on a Pole

- With the supplied U-bolt, the sensor suite can be mounted on a pole or rod having an outside diameter ranging from 1″ to 1.75″ (25 – 44 mm).
- To mount on a smaller pole, obtain a U-bolt that fits the base openings but that has a longer threaded section. If mounting the sensor suite on a smaller pole with the included U- bolt, the threaded sections of the U-bolt will be too short to securely mount the sensor suite.

C-shaped bracket
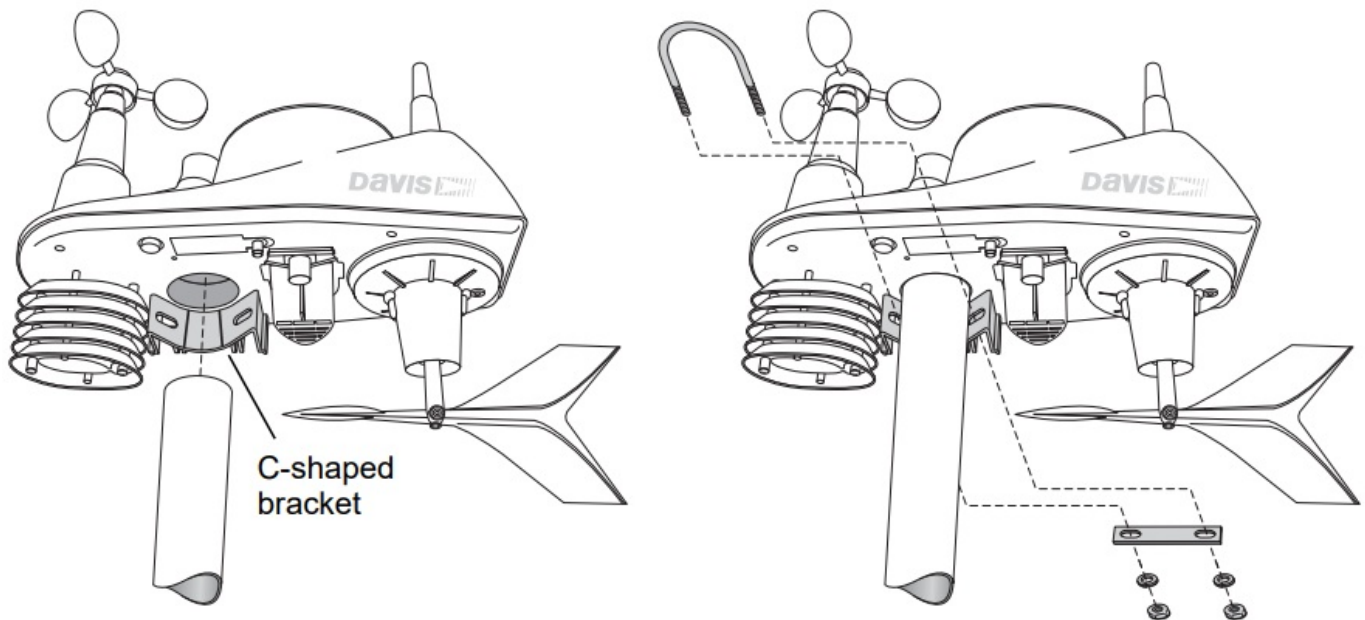
Installing the Sensor Suite on a Pole

1. If you are mounting your sensor suite on a Davis Mounting Tripod or the pole included with a Davis Mounting Pole Kit, follow the instructions included with those Davis products for proper installation.
   If you are not using one of these Davis products, mount on a galvanized steel pole having an outside diameter ranging from 1″ to 1.75″ (25 – 44 mm).
   Note:
   It is important that the mounting pole be plumb. You may wish to use a level such as a magnetic" torpedo level" to assure that the sensor suite, when mounted on top of the pole, will be level.
2. Using the illustration above as a guide, hold the sensor suite so that the wind cups and radiation shield are on the left and gently place the sensor suite on top of the pole.
3. While holding the mounting base of the sensor suite against the pole, place the two ends of the U-bolt around the pole and through the two holes in the C-shaped bracket on the base.
4. Slide the metal backing plate over the bolt ends where they extend out from the far side of the bracket.
5. Secure the backing plate with a lock washer and hex nut on each of the bolt ends, as shown in the illustration.
6. Tighten the hex nuts with your fingers only so that the sensor suite is just secure enough on the pole for you to release your grip.
7. If you are in the Northern Hemisphere, rotate the sensor suite on the pole so that the solar panel is facing south; if you are in the Southern Hemisphere, rotate the sensor suite so that the solar panel is facing north. The more precisely the solar panels face due south or north, the more accurate your wind direction readings will be.

Note: Do not rely on a compass unless it is properly calibrated. In North America there can be up to 15° variation between true north and a raw compass reading.

8. When the sensor suite is properly oriented, tighten the hex nuts with a wrench. Do not exceed 96 inch-pounds (10.8 newton-meters) of torque.

Note: You can refer to the bubble level on the top of the sensor suite to make sure it is as level as possible.

Finishing the Installation

The wind vane is calibrated at the factory to be accurate when the solar panel is pointing south.
If your solar panel does not point south, you must calibrate your console so that it displays accurate wind direction readings. In any case, you can also calibrate your console to fine-tune your station for greatest accuracy. Refer to your WeatherLink Console User Guide to calibrate your console.

Note: Calibration must be done if you are in the Southern Hemisphere, or if you are in the Northern Hemisphere and cannot install your sensor suite with the solar panel facing south

Maintenance and Troubleshooting

Maintenance

Note:
It is is a good idea to power down your Console or WeatherLink Live before maintaining your sensor suite so that it does not collect erroneous data during the maintenance steps.

Cleaning the Radiation Shield

The outer surface of the radiation shield should be cleaned when there is excessive dirt and build-up on the plates. Use a damp cloth to clean the outer edge of each ring.

Note:
Spraying down or using water excessively to clean the radiation shield can damage the sensitive sensors or alter the data the sensor suite is transmitting.

Check the radiation shield for debris or insect nests at least once a year and clean when necessary. A buildup of material inside the shield reduces its effectiveness and may cause inaccurate temperature and humidity readings.

1. Using a Phillips head screwdriver, loosen the two #6 x 2 1/2" screws holding the five radiation shield plates together, as shown.
2. Taking care to maintain the order in which the five plates are assembled, separate the plates as shown and remove all debris from inside the shield.
3. Reassemble the plates in the same order in which they were disassembled, and fasten them together using a Phillips head screwdriver to tighten the #6 x 2 1/2" screws, as shown.

Solid plates,
drain holes
toward
mounting pole
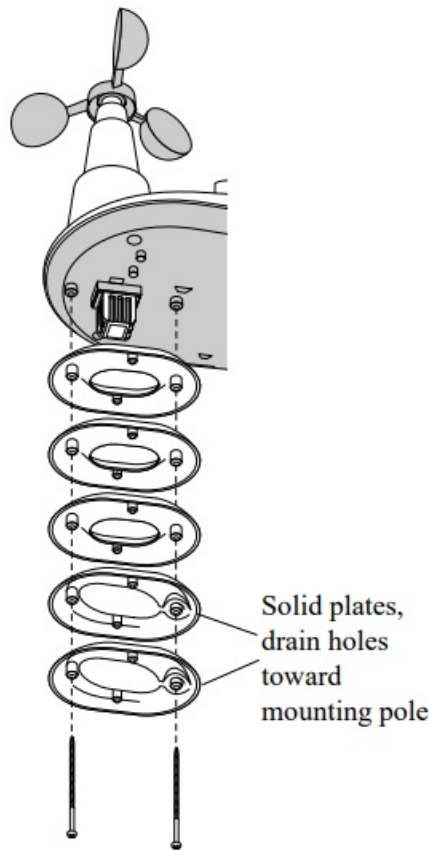
Cleaning the Rain Collector, Debris Screen, and Tipping Spoon Module

To maintain accuracy, thoroughly clean the rain collector cone and debris screen as needed or at least once a year.

Note:

Cleaning the rain collector and tipping spoon may cause false rain readings.

1. Use a damp, soft cloth to remove any debris from the rain collector and debris screen.
2. Use pipe cleaners to clear any debris remaining in the screen.
3. When all parts are clean, rinse with clear water.

To clean the tipping spoon assembly, it must first be removed from the sensor suite base.

1. Unscrew the thumbscrew securing the tipping spoon assembly to the sensor suite base. Slide the assembly down and away from the base.
2. Use a damp, soft cloth to gently remove any debris from the tipping spoon assembly, being careful not to damage any moving parts or scratch the spoon.
3. When all parts are clean, rinse with clear water, and replace the assembly. (See "Install the Rain Collector Tipping Spoon Assembly" on page 4.)
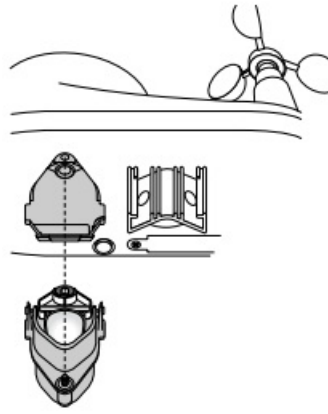
Troubleshooting

Troubleshooting Sensor Suite Reception If the console isn't displaying data from the sensor suite:

1. Verify that the sensor suite and console are powered. (See the WeatherLink Console User Guide.)
2. Make sure that the sensor suite battery is properly installed.
3. Walk around the room with the console, standing for a few moments in various locations, to see if you are picking up signals from the sensor suite.You can check your connection and signal strength by tapping the account button on your WeatherLink Console, then tap Device Information.
4. Press the transmitter button.

   If the Transmitter ID LED does not light after pressing the transmitter button, there is a problem with the sensor suite transmitter. Call Technical Support.

   If, after pressing the Transmitter Pushbutton, the Transmitter ID LED flashes every 2.5 sec-onds (indicating transmission) but your console isn't picking up a signal anywhere in the room, it could be related to one of the following causes:

   - You changed the sensor suite Transmitter ID of the sensor suite but did not reconfigure the console to that ID.
   - Reception is being disrupted by frequency interference from outside sources, or the distance and barriers are too great.
   - **Note:**

     Interference has to be strong to prevent the console from receiving a signal while in the same room as the sensor suite.
   - There is a problem with the WeatherLink Console.
5. If a problem with receiving the wireless transmission still exists, please contact Technical Support.

Note:
See "Contacting Davis Instruments" on page 13.

Most Common Rain Collector Problem
"My rain data seems too low."
If the rain collector seems to be under-reporting rainfall, clean the debris screen and tipping spoon module to clear out any debris.

Most Common Anemometer Problems
"The wind cups are spinning but my console displays 0 mph."
The wind cups may not be turning the shaft. Remove the cups from the anemometer by loosening the set screw.

Put the cups back onto the shaft and make sure to slide them down the shaft as far as possible. Re-tighten the set screw.

"The wind cups don't spin or don't spin as fast as they should."
The anemometer may be located where wind is blocked by something, or there may be friction interfering with the cups' rotation. Remove the wind cups by loosening the set screw, and clear out any insects or debris which may be interfering with the cup rotation. Turn the shaft the cups rotate on. If it feels gritty or stiff, contact Davis Technical Support.

Note:
Do not lubricate the shaft or bearings in any way.

"Readings aren't what I expected them to be."
Comparing data from your sensor suite to measurements from TV, radio, newspapers, or a neighbor is NOT a valid method of verifying your readings. Readings can vary considerably over short distances. How you site the sensor suite and anemometer can also make a big difference. If you have questions, contact Davis Technical Support.

Contacting Davis Instruments
If you have questions about the sensor suite or Vantage Vue system, or encounter problems installing or operating the weather station, please contact Davis Technical Support.

Note: Please do not return items to the factory for repair without prior authorization.

Online www.davisinstruments.com See the Weather Support section for copies of user manuals, product specifications, application notes, software updates, and more.
E-mail **support@davisinstruments.com**
Telephone **510-732-7814**
Monday – Friday, 7:00 a.m. – 5:30 p.m. Pacific Time

Appendix A: Specifications

Complete specifications on **www.davisinstruments.com**.
Integrated Sensor Suite (ISS) Specifications

- Operating Temperature …………………………………….. -40° to +150°F (-40° to +65°C)
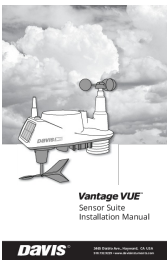- Non-operating (Storage) Temperature ………………….. -40° to +158°F (-40° to +70°C)
- Backup battery type & life ……………………………….. CR-123 3-Volt Lithium cell, 8 months without sunlight – greater than 2 years depending on solar charging

REGION	FREQUENCY RANGE
USA	902 – 928 MHz FHSS
EU	868.0 – 868.6 MHz FHSS
Australia, Brazil	918 – 926 MHz FHSS
India	865 – 867 MHz FHSS
New Zealand, Peru	921 – 928 MHz FHSS
Japan	920.5 – 925.1 MHz FHSS
Taiwan, Pakistan	920 – 925 MHz FHSS

- Transmitter ID codes: . . . . 8 user-selectable
- License: . . . . Low power (less than 10 mW), no license required

Update Interval by Sensor		
BAR	Barometric Pressure	1 min.
HUMIDITY	Inside Humidity	1 min.
	Outside Humidity	50 sec.
	Dew Point	10 sec.
RAIN	Rainfall Amount	20 sec.
	Rain Storm Amount	20 sec.
	Rain Rate	20 sec.
TEMPERATURE	Inside Temperature	1 min.
	Outside Temperature	10 sec.
	Heat Index	10 sec.
	Wind Chill	10 sec.
WIND	Wind Speed	2.5 sec.
	Wind Direction	2.5 sec.
	Direction of High Speed	2.5 sec.

Documents / Resources

Davis Weather Station with Weather Link Console [pdf] Instruction Manual
Weather Station with Weather Link Console, with Weather Link Console, Weather Link Console
, Link Console, Console

References

- ⦿ **WeatherLink Home**
- **D Davis Instruments Support, FAQs and Troubleshooting**
- **User Manual**