



**DAVIS** ®

AN **aem** BRAND

PRECISION WEATHER INSTRUMENTS

# Over 35 Years of Weather Innovation

1980



## 1984 | TURBO METER

This hand-held device reads wind speed in miles/hour, knots, feet/minute, or meters/second.



## 1988 | DIGITAL WEATHER PRO

A micro weather station for measuring basic weather conditions. The Weather Pro is the origin of Davis's home and industrial weather market leadership.



## 1989 | DIGITAL WEATHER MASTER

A complete weather station with barometer, affordable enough for home use.

1990



## 1996

New mounting allows you to install many sensors in one location.



## 1991 | WEATHERLINK

For the ultimate in weather monitoring, link any Davis weather station to an IBM-compatible PC or Macintosh.



## 1991 | PERCEPTION II

Monitor indoor climate using the most advanced technology available.

2000



## 2000 | WEATHER ECHO

Take the weather with you wherever you go. The wireless Weather Echo receives and displays data from any of the Davis transmitters.



## 2001 | VANTAGE PRO

A sensor suite paired with the iconic Davis console. The console includes quick-view icons, graphing, and forecasts.



## 2004 | WINDSCRIBE

An ultrasonic wind meter that uses patented technology to read current wind speed.

2010



## 2009 | VANTAGE VUE

An accurate and reliable weather station that's tough, sleek, and sets up in minutes.



## 2008 | WEATHERLINKIP

Uploads data directly to WeatherLink.com without a PC.



## 2005 | VANTAGE PRO2 PLUS

A wireless, frequency-hopping, sensor suite that includes a 24-Hour Fan-Aspirated Radiation Shield, and Solar Radiation and UV Sensors.



## 2011 | VANTAGE CONNECT

A cellular telemetry data logger that provides remote, real-time weather and sensor readings.



## 2017 | AEROcone

This rain collector reduces wind-induced errors with its aerodynamic design.



## 2017 | ENVIROMONITOR

Create a network of Davis and industry-leading, third-party sensors. View the data anywhere, anytime on WeatherLink.com and the Mobilize app.

2018

2023



## 2020 | AIRLINK

A professional air quality monitor accurately measures particulate matter and provides real-time Air Quality Index (AQI) readings for both indoor and outdoor environments.



## 2019 | WEATHERLINK LIVE

WeatherLink Live connects to 80+ sensors at a time and live-streams data over Wi-Fi or Ethernet directly to the WeatherLink Cloud.



## 2018 | WEATHERLINK CLOUD

A suite of web, mobile, tablet, and API-based applications for viewing and managing personal weather data.



## 2023 | WEATHERLINK CONSOLE

The WeatherLink Console revolutionizes the way you access, analyze, and understand your hyperlocal weather data.

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Identifies the products that can be integrated with the EnviroMonitor system.



Identifies the stations or sensors that can be NIST traceable. See page 37 for details.



Identifies the products that can be integrated with the Sensor Transmitter.



Identifies the products that can be integrated with the Leaf & Soil Moisture/Temperature Station.



ISO 9001 CERTIFIED COMPANY

# What's New?

## New WeatherLink Console

This intuitive device lets you receive, display, and interact with data from your local network and connect to Wi-Fi to push your data to the WeatherLink Cloud. Check it out on page 8.

- Brilliant, interactive HD display
- Customizable dashboard
- Personalized real-time data viewing
- Create charts & set alarms



## Davis is an AEM brand



AEM is the global leader in innovative mission critical weather, wildfire and water monitoring and intelligence solutions. We aim to be the world's essential source for environmental insights – enabling decisive action and positive outcomes for our customers and their constituents. Our family of innovators offers world-class hydrometeorological technologies and services, including sensors, dataloggers, telemetry, and advanced analytics and software. Our technology and services empower the communities and organizations to survive – and thrive – in the face of escalating environmental risks.



# Weather Stations

## Measure Weather Where it Matters

Davis stations have been weathering storms and delivering accurate environmental data for over 35 years. Meteorologists, farmers, research scientists, backyard gardeners, and weather enthusiasts worldwide rely on our durable, precision instrumentation.

Vantage Vue



Vantage Pro2



AirLink



# Vantage Vue®: Get serious about weather

Vantage Vue provides accurate, reliable weather monitoring in a self-contained, easy-to-install system. Sleek but tough, Vantage Vue gives you all the weather data you need:

- Inside & Outside Temperature
- Inside & Outside Humidity
- Barometric Pressure
- Rainfall
- Wind Speed & Direction
- Wind Chill
- Dew Point
- More

The fully-integrated, corrosion-proof sensor suite sets up in minutes and transmits data wirelessly to your console anywhere in your home, school, or business. The small profile design minimizes visual impact in your yard or on your roof.

## Rugged, accurate, affordable

The fully-integrated, corrosion-proof sensor suite is built to take all the weather your location can give—freezing winters, springtime thunderstorms, blistering summer sun, and brisk autumn winds. The small profile sensor suite is designed to minimize visual impact in your yard or on your roof.

### Features:

- Up to 10x faster updates than the competition (Every 2.5 seconds)
- Wireless transmission 3x farther than the competition (1,000 ft./300 m from station to console)
- Brilliant, interactive HD display
- Customizable dashboard

6242 Vantage Vue  
(See pages 9-10 for product configurations.)



#### 1. WIRELESS

Frequency-hopping, spread-spectrum radio ensures consistent transmission up to 1,000 ft. (300 m) line-of-sight from sensor suite to console.

#### 2. RAIN COLLECTOR

Self-emptying tipping spoon measures rain in 0.01" increments. Metric version measures in 0,2 mm increments.

#### 3. ANEMOMETER

Wind tunnel-tested to 200 mph (320 km/h).

#### 4. WEATHER-PROOF HOUSING

Corrosion-resistant cover provides durability in extreme conditions. Electronics are potted or overmolded for added moisture shielding.

#### 5. RADIATION SHIELD

Provides excellent protection from solar radiation and other sources of radiated and reflected heat for accurate temperature and humidity readings.

#### 6. TEMPERATURE & RELATIVE HUMIDITY

Provides outside temperature readings from -40° F to 150° F (-40° C to 65° C) and measures relative humidity from 1 to 100%.

#### 7. EASY INSTALLATION

Installs easily and quickly with included mounting hardware kit.

#### 8. WIND DIRECTION

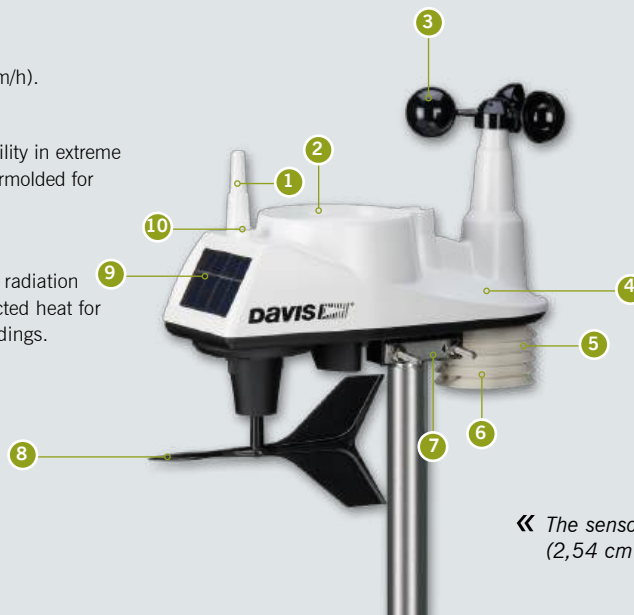
Measures wind direction in compass points or degrees.

#### 9. SOLAR PANEL

Energizes the station during the day. Onboard supercapacitor provides power at night. Lithium battery provides backup when needed.

#### 10. BUILT-IN BUBBLE LEVEL

Allows for more accurate installation and better data collection.



6242 Vantage Vue

« The sensor suite mounts on poles from 1.00" to 1.75" (2,54 cm to 4,45 cm) in diameter (pole not included).

# Vantage Pro2™: Professional and rugged

Vantage Pro2 and Vantage Pro2 Plus offer the professional weather observer or serious weather enthusiast robust performance with a wide range of options and sensors. You'll get your own local forecast, highs/lows, totals or averages, and graphs for virtually all weather variables over the past 24 days, months, or years—all on the console. You can customize your Vantage Pro2 by adding extra consoles or the Sensor Transmitter (see page 30). The Vantage Pro2 is available in both wireless and cabled\* versions. Vantage Pro2 Plus includes UV and Solar Radiation sensors; however, all stations can be customized with either. Vantage Pro2 is an excellent choice for emergency professionals, farmers, educators, researchers, municipalities, and others, to monitor wind and moisture conditions, irrigation requirements, and potential flooding.

## Features:

- Up to 10x faster updates than the competition (Every 2.5 seconds)
- Wireless transmission 3x farther than the competition (1,000 ft./300 m from station to console)
- UV/solar radiation and evapotranspiration updates (Included with Vantage Pro2 Plus, optional for Vantage Pro2)
- Brilliant, interactive HD display

### 1. ANEMOMETER & WIND VANE

Rugged components stand up to hurricane-force winds, yet are sensitive to the lightest breeze. Wind tunnel-tested to 200 mph (320 km/h). Anemometer can be installed separately using 40 ft. (12 m) cable (included).

Optional Sensor Transmitter allows you to mount the anemometer even farther from the rain collector and the rest of the sensor suite.

### 2. RAIN COLLECTOR

The patented AeroCone Rain Collector meets the collection area guidelines of the World Meteorological Organization. Reads rainfall amounts in 0.01" increments. Metric versions measure in 0,2 mm increments. Includes debris screen and spikes to keep birds from landing.

### 3. PASSIVE RADIATION SHIELD

The most effective passive shelter available. Protects your temperature and humidity sensors from solar radiation and other sources of radiated and reflected heat. Multi-plate construction for maximum airflow.

### 4. 24-HOUR FAN-ASPIRATED RADIATION SHIELD

Models with 24-Hour Fan-Aspirated Radiation Shields include additional radiation shield plates and a second solar panel to power the motor-driven fan. See page 32.

### 5. TEMPERATURE & HUMIDITY SENSORS

Located inside the radiation shield, which protects the sensors from solar radiation and other sources of radiated and reflected heat.

### 6. WEATHER-RESISTANT SHELTER

Provides protection against the elements for the sensor suite's electronic components.

### 7. SOLAR PANEL

Powers the wireless station during the day and charges the supercapacitor for night operation. Lithium battery provides backup on cloudy days. (Solar panel is not included with cabled version.)

### 8. SOLAR RADIATION AND UV SENSORS (VANTAGE PRO2 PLUS)

Includes sensors to track solar radiation, evapotranspiration and UV indices. Time settings are programmable to meet your specific needs. Sensors can be added separately to the Vantage Pro2. See page 33.

### 9. OPTIONAL MOUNTING POLE

One of several installation options. For more, including our mounting tripod, see page 11.



*Pictured: 6263 Wireless Vantage Pro2 Plus with 24-Hour Fan-Aspirated Radiation Shield*



**6252 Wireless Vantage Pro2.** *Includes built-in bubble level for accurate installation. The tipping spoon in our rain collector is self-emptying, corrosion-resistant, and precisely-calibrated for exceptional accuracy.*

\* Cabled Vantage Pro2 versions are only compatible with legacy Vantage Pro2 Consoles.

# WeatherLink Console: The smart way to view and stream live weather data

The WeatherLink Console revolutionizes the way you access, analyze, and understand your hyperlocal weather data reported by your Vantage Pro2™ or Vantage Vue® sensor suite, or your custom network of multiple Davis sensors. One intuitive device lets you receive and display data from your local network and connect to Wi-Fi to push your data to the WeatherLink Cloud.

## 6313 WeatherLink Console



### Features:

- Brilliant, interactive HD display
- Customizable dashboard
- Personalized real-time data viewing
- Create charts & set alarms
- Upload data to the WeatherLink Cloud

### 1. DASHBOARD

Customize the dynamic dashboard to see up to 21 parameters, including inside or outside temperature and humidity, feels like temperature, wind speed and direction, rainfall rate and accumulation, barometer, UV\* and Solar Radiation\*.

\*Sensor included on Vantage Pro2 or as standalone sensor

### 2. CURRENT AND HISTORICAL DATA

View current data and a full database of historical records, including highs and lows, rainfall history, and more - all stored right on the console. Connect to Wi-Fi to upload data to the WeatherLink Cloud and view and analyze data on your desktop and your phone.

### 3. DAILY FORECAST

Offline: Icons let you know what to expect for the next 12 hours; sun, partly cloudy, rain or snow. Plus the bottom of the screen shows a 24 – 48 hour ticker tape forecast. Online: Connect to Wi-Fi and the WeatherLink Cloud to see detailed hourly and daily forecasts for the next 7 days.

### 4. VIEW MORE THAN 80 CHARTS

Graph the last 24 hours, days, or months of readings or highs and lows. View over 80 graphs, including additional analyses of temperature, rain, rain rate, wind, and barometric pressure.

### 5. ALARMS

Choose from hundreds of alarms for multiple parameters and sensors and receive alerts about the weather and environmental changes you care about most. Select from more than a dozen sounds with volume control to trigger audible alarms and hear which parameter has changed.

### 6. MAP

Use the Map to view and interact with community of public stations in the worldwide WeatherLink Network. Click on a station to see a summary of current data.

See more features on page 15





# Weather Stations

Choose the configuration that's right for you. Buy a complete station with sensor suite and console, or as separates.



**Vantage Vue**  
Shown here: 6242

**Vantage Pro2**  
Shown here: 6252

**Vantage Pro2 Plus**  
Shown here: 6263

Davis accuracy in a self-contained, easy-to-install system. Available bundled with WeatherLink Live.

Create a customized professional station with a wide range of options and sensors. Sensor suite has detachable anemometer for flexible siting.

Includes UV & Solar Radiation sensors. 24-Hour Fan Aspiration model achieves maximum accuracy of temperature & humidity readings by circulating the air. Ideal for arid climates.

The Davis line of Vantage weather stations is built to provide a full weather system. To maximize your weather watching, a variety of additional sensors and stations are available to make your weather station even more comprehensive.	<b>6242 Wireless</b>	<b>6252 Wireless</b>	<b>6253 Wireless w/Fan</b>	<b>6262 Wireless</b>	<b>6263 Wireless w/Fan</b>
<b>CONSOLE</b>					
WeatherLink Console	•	•	•	•	•
<b>SENSOR SUITE</b>					
Anemometer, rain collector, temperature, and humidity sensors	•	•	•	•	•
Detachable anemometer with 40' (12 m) cable		•	•	•	•
Solar Radiation Sensor		Optional	Optional	•	•
UV Sensor		Optional	Optional	•	•
<b>DATA TRANSMISSION</b>					
100' (30 m) cable					
Solar-powered wireless transmitter with battery backup	•	•	•	•	•
<b>RADIATION SHIELD</b>					
Standard Radiation Shield	•	•		•	
Daytime Fan-Aspirated Radiation Shield		Optional		Optional	
24-Hour Fan-Aspirated Radiation Shield			•		•
<b>WEATHERLINK LIVE</b>					
WeatherLink Live					
<b>ADD-ONS</b>					
Add console (or additional consoles) to view data in more than one location	Optional	Optional	Optional	Optional	Optional
Special-purpose Wireless Leaf & Soil Moisture/Temperature Station		Optional	Optional	Optional	Optional
Sensor Transmitter		Optional	Optional	Optional	Optional

# Sensor Suites

Don't need a console? Your data can be pushed directly to the WeatherLink Cloud with a data collection device (pages 14-16) and a sensor suite that includes just the outdoor sensors. Sensor suites are a great choice for those who want to access their data only on their smartphone, tablet, or computer; or who want to integrate the sensor suite into an EnviroMonitor system. Choose from wireless or cabled, in a variety of options. (No console included.)



	<b>Vantage Vue</b> Shown here: 6357	<b>Vantage Pro2</b> Shown here: 6322			<b>GroWeather</b> Shown here: 6820		<b>Vantage Pro2 Plus</b> Shown here: 6328		
	6357 Wireless	6322C Cabled	6322 Wireless	6323 Wireless w/Fan	6820C Cabled	6820 Wireless	6327C Cabled	6327 Wireless	6328 Wireless w/Fan
The Davis line of Vantage weather stations is built to provide a full weather system. To maximize your weather watching, a variety of additional sensors and stations are available to make your weather station even more comprehensive.	<b>EM</b>	<b>EM</b>	<b>EM</b>	<b>EM</b>	<b>EM</b>	<b>EM</b>	<b>EM</b>	<b>EM</b>	<b>EM</b>
<b>SENSOR SUITE</b>									
Anemometer, rain collector, temperature, and humidity sensors	•	•	•	•	•	•	•	•	•
Detachable anemometer with 40' (12 m) cable		•	•	•	•	•	•	•	•
Solar Radiation Sensor		Optional	Optional	Optional	•	•	•	•	•
UV Sensor		Optional	Optional	Optional	Optional	Optional	•	•	•
<b>DATA TRANSMISSION</b>									
100' (30 m) cable		•			•		•		
Solar-powered wireless transmitter with battery backup	•		•	•		•		•	•
<b>RADIATION SHIELD</b>									
Standard Radiation Shield	•	•	•		•	•	•	•	
Daytime Fan-Aspirated Radiation Shield		Optional	Optional		Optional	Optional	Optional	Optional	
24-Hour Fan-Aspirated Radiation Shield				•					•
<b>WEATHERLINK LIVE</b>									
WeatherLink Live	Optional		Optional	Optional		Optional		Optional	Optional
<b>ADD-ONS</b>									
Add console (or additional consoles) to view data in more than one location	Optional		Optional	Optional		Optional		Optional	Optional
Special-purpose Wireless Leaf & Soil Moisture/Temperature Station			Optional	Optional		Optional		Optional	Optional
Sensor Transmitter			Optional	Optional		Optional		Optional	Optional

# Installing your weather station

Davis weather stations give you accurate data wherever they are installed. Whether you want to know the temperature on your back deck, are concerned about the wind speed in your garden, or want to report your data to NOAA, Davis weather stations can be installed to perfectly suit your needs.



Vantage Pro2 on Mounting Tripod

## Mounting Tripod

This galvanized steel tripod with tilting brackets makes for easy installation anywhere, even on a roof or uneven surface. Perfect for mounting any sensor suite or EnviroMonitor Gateway/Node. Poles measure 36.38" (0,92 m) long. Assemble the two together to make a single 69.75" (1,77 m) pole. Outside diameter is 1.31" (33 mm). For ground installation use 7716A, which includes three 18" (0,46 m) lag bolts.

7716 Mounting Tripod



7716A Mounting Tripod

with 18" (0,46 m) lag bolts



## Mounting Pole Kit

Ideal for mounting a sensor suite or EnviroMonitor Gateway/Node to a preexisting structure such as a deck, a fence post, or roof eaves. Includes two galvanized steel poles, connector, and mounting hardware. Poles measure 19.5" (0,50 m) and 21" (0,53 m) long. Assemble the two together to make a single 37.5" (0,95 m) pole. Outside diameter is 1.31" (33 mm). Includes mounting hardware.

7717 Mounting Pole Kit



Vantage Vue on Mounting Pole

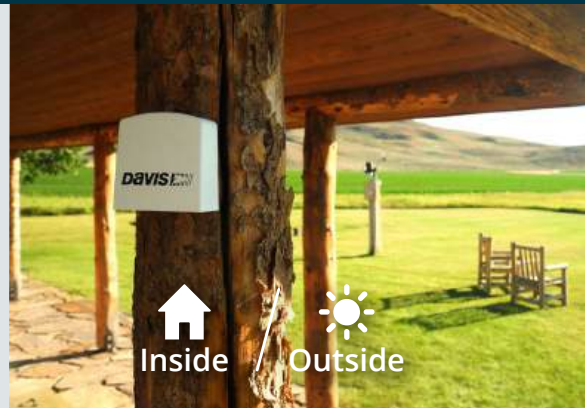
## Installation Guidelines

Mount your Vantage Vue or Vantage Pro2 Sensor Suite:

- 5-7 feet (1,5-2,1 m) above the surface (ground or roof).
- Over a flat area that is gently sloping, regularly mowed, or naturally landscaped, with good drainage.
- Away from heat radiators, such as asphalt or air conditioning units.
- Where you can access the rain collector for maintenance.
- At least 2 feet (0,6 m) above the average maximum yearly snow depth.
- So that the anemometer is not blocked by surrounding obstructions such as trees or buildings.
- The Vantage Pro2 anemometer can be extended from the station with the 40' (12 m) included cable, or by combining with a Sensor Transmitter. (See page 30 for options.)

# AirLink®: Professional Air Quality Monitor

AirLink accurately measures particulate matter for PM1, PM2.5 and PM10 to give you easy-to-understand graphs and a color-coded Air Quality Index reading based on inhalable particles that are small enough to penetrate deep in the lungs and enter your the bloodstream. The only way to be sure you know the real-time air quality of the air you breathe is to measure it inside and outside your home, business, or school.



## Know What You Breathe

- **Accurate:** Measures particulates as small as 0.3 micrometers with an accuracy of +/-10 micrograms per cubic meter in concentrations.
- **Real-Time Readings:** See updates on your phone and computer every minute.
- **Global Air Quality Indices:** Choose from a growing list including US, Canada, Mexico, China, EU, UK, Australia, India, and South Korea.
- **Wi-Fi Connected:** Easily connect AirLink to your Wi-Fi network to send data to the WeatherLink Cloud.
- **Pair with a Weather Station:** Use multiple AirLinks as stand-alone monitors or easily merge with your Davis weather station on the WeatherLink Cloud.
- **Compact & Quiet Design:** Low profile design with near-silent fan mounts on a wall or sits on a countertop.
- **Simple Setup:** Quickly install AirLink by following the simple directions on the free WeatherLink app.
- **1-Year Limited Warranty:** Enjoy peace of mind with Davis' reputation for quality and durability.



Outdoor Monitor Shelter

AirLink Monitor

Comes Wi-Fi ready, with an outdoor monitor shelter and a 6.5 ft. (2 m) power cable.

### 7210 AirLink Air Quality Monitor



## WeatherLink.com

View, chart, and share your air quality data. Explore global AirLink and weather data from the largest network of personal weather stations in the world. See page 19 for more details.



For increased flexibility, use a 25 ft. (7,6 m) USB power cord with AirLink. See page 34.



## Current Air Quality Index (AQI)

- **Current Air Quality Index:** Easily understand your air quality with a color-coded description of conditions from a growing list of global indices.
- **NowCast Air Quality Index:** The EPA's standard for reflecting rapidly changing air quality.
- **High Air Quality Index:** Know exactly how high the air quality readings were today, and exactly when.



## Air Quality Trend

- **Air Quality Trend:** See a 24-hour air quality trend to know precisely how your air quality is changing.
- **Additional Weather Data:** Temperature, humidity, dew point, heat index, and wet bulb – all updated every minute.
- **Alarms:** Set email alarms for high air quality readings on WeatherLink.com.



Join the Davis Community: **Hundreds of thousands of stations around the world with common goals: accuracy, durability, and dependability**

## Why Davis Instruments:

When you purchase a Davis Instruments weather station, you join a community of weather enthusiasts and professionals around the world that are committed to collecting, analyzing, and sharing accurate weather data. Our products are meant to withstand the harshest environments and many of our customers have enjoyed their stations for over a decade with minimal routine maintenance.

### Made by "US"

Our products are designed, assembled, and rigorously tested by the Davis team at our headquarters in Hayward, California.

### Durability

Our weather stations go through a minimum of 10 tests before shipping. They have been engineered to withstand corrosion, 200 mph (90 m/s) winds, the scorching sun, and extreme temperatures.

### Precision & Accuracy

Our products provide scientific-grade precision and accuracy. We have spent decades improving and refining every sensor that we make.

### Value

Our products are designed to provide professional-grade instruments at an affordable price. You can find a cheaper station, but you won't be disappointed by a Davis station.



## WeatherLink Network: The Davis online community

Join the WeatherLink Network by connecting your weather station to the WeatherLink Cloud to access your data anywhere, anytime, on WeatherLink.com and the WeatherLink mobile app.

See pages 18-20 for more information.

# Data Collection

## Your Data, Your Way

Staying connected to your weather conditions is critical. Davis offers a wide array of data collection options to keep the data coming. No matter if it's from your backyard, the back forty, or the back woods, we've got you covered.



**WeatherLink Console**  
*Wi-Fi*



**WeatherLink Live**  
*Wi-Fi/Ethernet*



**EnviroMonitor Gateway**  
*Cellular+Mesh Network*



**EnviroMonitor IP Gateway**  
*Wi-Fi/Ethernet+Mesh Network*



**WeatherLink USB/Serial**  
*Computer*

# WeatherLink Console: A smart way to view and stream live data

WeatherLink Console makes getting and viewing your data from any Davis sensor simple, reliable, and fast. This console uses Davis's dependable, frequency-hopping, spread-spectrum radio to collect data from your weather station and a network of indoor and outdoor sensors. Interact with your data on the touchscreen and/or access from the WeatherLink Cloud on the website and mobile apps.

## Monitor YOUR environment

Configure a custom network of multiple Davis sensors with one WeatherLink Console.

Track barometric pressure and inside temperature and humidity.

Add any combination of the following:

- Vantage Vue Sensor Suites
- Vantage Pro2 Sensor Suites
- Add Airlink Air Quality monitor
- Sensor Transmitters with up to five sensors (pages 30-34)
- Wireless Leaf & Soil Moisture/Temperature Stations (page 30)

## Welcome to the smart home

- Ask Amazon Alexa about your weather.
- Connect your data to smart irrigation systems or other IoT/smart home devices.

## Securely share your data

- Contribute your weather data to the global WeatherLink community.
- Share data with friends, family, or co-workers via the WeatherLink website and mobile app.
- Upload to a growing list of third-party sites like Weather Underground or CWOP.
- Build your own weather tools with our powerful suite of API products.

## Enjoy real-time data

- Experience the fastest reporting weather data on the market with any personal device.

## Never lose data

- Safeguard recorded data with WeatherLink Console's internal auxiliary memory.
- Protect against data loss with redundant battery backup.

## Effortless setup

- Simple setup using on-screen prompts.
- No Wi-Fi? No problem. Easily connect to Ethernet with the included cable.

## Long-range wireless data

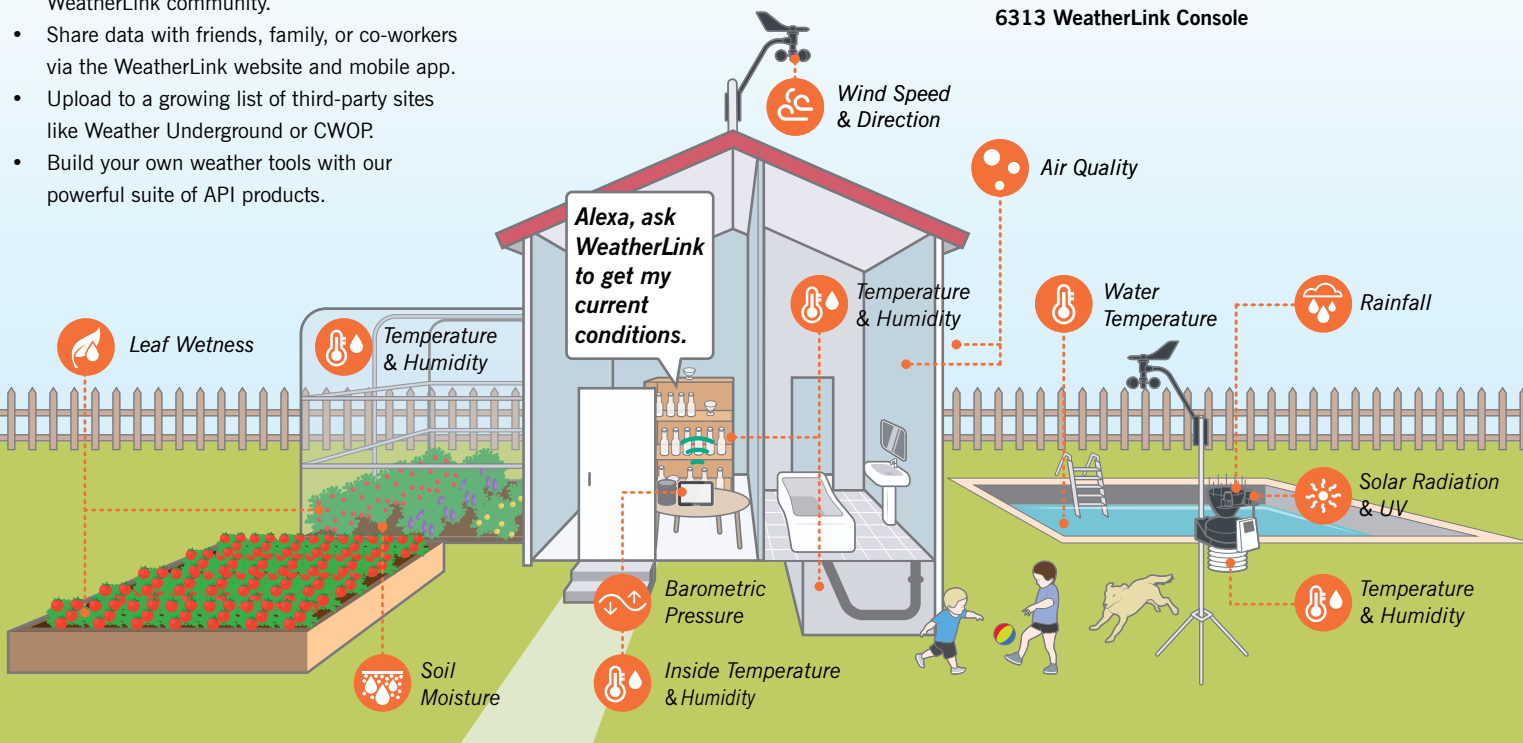
- Depend on Davis's industry-leading, proprietary, frequency-hopping, spread-spectrum radio to transmit data up to 1,000 ft. (300 m), line-of-sight.



<b>80+</b>	<b>10+</b>
Connected sensors to one WeatherLink Live	Different sensor types
<b>8</b>	<b>1,000 ft.</b>
Listen to 8 transmitters	(300 m) Transmission distance
<b>20+</b>	<b>80+</b>
Viewable parameters	Graphs

Comes Wi-Fi ready, power cable, kick stand, and wallmount.

## 6313 WeatherLink Console



### WeatherLink Live

Stream live data from your wireless weather station to the WeatherLink Cloud. The WeatherLink Live uploads your data via Wi-Fi, so you can see updates on your phone as they happen. It is the perfect solution for people who want to be a part of the WeatherLink network and do not need data displayed on a console. Data is accessible via smartphone or computer. Weatherlink Live can receive and upload data from up to 8 Vantage Vue or Vantage Pro2 weather stations, or other Davis transmitting stations, in any combination.

6100 WeatherLink Live



### WeatherLink USB and Serial Data Loggers

The USB and Serial Data Loggers connect the console to a computer running WeatherLink Computer Software. Optionally upload data to the WeatherLink Cloud with an internet-connected computer that is on and running the software. Free WeatherLink Computer Software is available for download on WeatherLink.com.

6510USB USB Data Logger  
6510SER Serial Data Logger



### Weather Envoy™

Receive data from a Vantage Vue, Vantage Pro2, or other Sensor Transmitters. Use with a required WeatherLink data logger to push data securely to the WeatherLink Cloud and access it for FREE on WeatherLink.com and the WeatherLink Mobile app. With WeatherLink Computer Software and a data logger, you can collect and store data from the outdoor sensors and download it directly to your computer.

6316 Wireless Weather Envoy  
6316C Cabled Weather Envoy



## Use the data collection device that's right for you



	WeatherLink Console	WeatherLink Live	WeatherLink USB	WeatherLink Serial	EnviroMonitor Gateway	EnviroMonitor IP Gateway
Data transmission	Wi-Fi	Wi-Fi/Ethernet	USB	Serial	Cellular	Wi-Fi/Ethernet
Data upload to WeatherLink Cloud requires computer and software running 24/7	No	No	Yes	Yes	No	No
Streams live data within LAN	No	Yes	No	No	No	No
Typical installation location*	Indoor	Indoor	Indoor	Indoor	Outdoor	Indoor/Outdoor
Console or Envoy required	No	No	Yes	Yes	No	No
Storage capacity**	7+ years	180 days	26 days	26 days	180 days	180 days
Power source	AC/battery back-up	AC/battery back-up	AC/battery via Console/Envoy	AC/battery via Console/Envoy	Solar/battery back-up	AC/battery back-up
Annual service plan required	No	No	No	No	Yes	Yes
<b>Product Number</b>	<b>6313</b>	<b>6100</b>	<b>6510USB</b>	<b>6510SER</b>	<b>6802A</b>	<b>6805</b>

\*WeatherLink Console, WeatherLink Live, WeatherLink USB, and WeatherLink SER are intended for indoor use. To use an EnviroMonitor IP Gateway outdoors, mount in a Universal Shelter, 6618. (See page 33.)

\*\*Based on data from one sensor suite at a 15-minute archive interval.



# Data Viewing

## Choose Your View

Access, analyze, share, and compare your weather data from any connected device, console, or desktop computer. Customize your bulletin dashboard of current conditions, use forecasts, chart historical data, and share your data with the WeatherLink Network and beyond.



WeatherLink.com  
*Web*



WeatherLink  
*Mobile App*



Mobilize  
*Mobile App*



WeatherLink  
*Computer Software*



Console

# WeatherLink: Best-in-class meteorological data viewing

Our data-viewing options give you access to WeatherLink.com and apps from anywhere on any device via the WeatherLink Cloud or by downloading the WeatherLink Computer Software directly to your computer. You can also combine these two options. Both options are completely FREE, with the ability to upgrade based on your data needs. Pair your software needs with a compatible data-collection device to view and record weather and sensor data.

## WeatherLink Cloud

The WeatherLink Cloud family of products offers the ultimate in versatility for access to your data. With the completely FREE Basic tier you can view current conditions on WeatherLink.com or the WeatherLink Mobile app anywhere, on any internet-connected device.

Upgrade to a Pro or Pro+ account for access to all historical data, charting, and raw data exports for a full-featured analysis tool.

*WeatherLink Cloud is compatible with all Davis data-collection products.*



## WeatherLink Computer Software

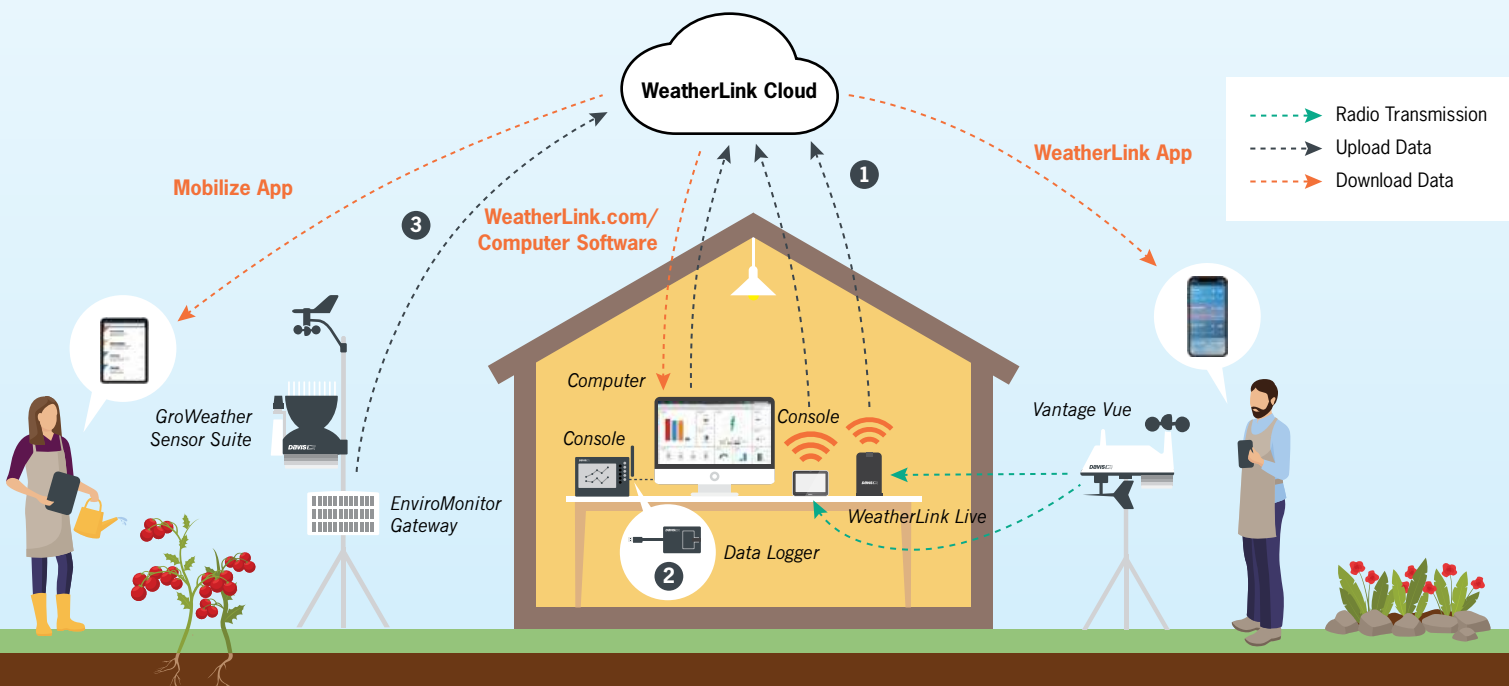
The FREE WeatherLink Computer Software is available for download with a FREE WeatherLink.com account. It allows you to store data directly on your computer's hard drive. The software package includes the ability to graph multiple variables and export data to popular spreadsheet and database programs.

Use an internet-connected computer turned on 24/7 to share data with the WeatherLink Cloud for FREE. (Data logger required.)

*WeatherLink Computer Software is not compatible with Mac OS Catalina and forward.*

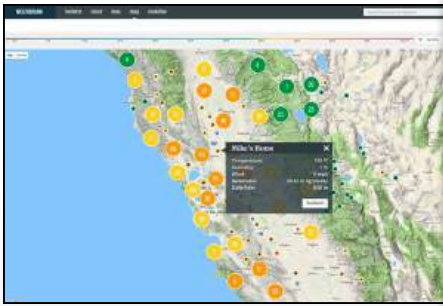


	WeatherLink Cloud Access your data from any connected device	WeatherLink Computer Software Access from a single computer, optionally connect to WeatherLink Cloud
WeatherLink Console	<b>Automatically</b> sends data to WeatherLink Cloud. ① ③	<b>Download</b> data from WeatherLink Cloud to Computer Software. <i>WeatherLink Computer Software is not compatible with WeatherLink Console or WeatherLink Live.</i>
WeatherLink Live		
EnviroMonitor Gateways		
WeatherLink USB/Serial Data Logger	<b>Optionally</b> upload data to WeatherLink Cloud for FREE. (Data logger cabled to an internet-connected computer running 24/7) ②	Data <b>stored</b> and <b>analyzed</b> in WeatherLink Computer Software.



# WeatherLink.com: All of your data, on the web

© 2018 Google



View current conditions bulletin dashboards from the global WeatherLink Network of public stations. **Free with Basic**



Build a custom weather view on the bulletin dashboard. **Free with Basic**



Use the chart feature to compare multiple weather data variables at the same time. **Upgrade to Pro or Pro+**

## WeatherLink Basic

With the completely FREE WeatherLink Basic account you get a versatile tool to monitor current conditions at home or around the world.

- Create a custom bulletin dashboard of current conditions with 16+ different data types.
- Share a secure station URL for anyone to view your weather data. No account required to view.
- View local weather forecasts.
- Access the global WeatherLink Network of public stations on the map.
- Upload data to third-party sites, like Weather Underground and CWOP.
- Get e-mail notifications with preset alarms.
- Use the API to access weather data in JSON format.
- Archive interval: 15 minutes.

## WeatherLink Pro

Enhance your WeatherLink experience by upgrading to Pro.

- Visualize multiple data points at once with historical data in charts.
- Analyze and download all raw data records.
- Increase data speeds for third-party uploads and WeatherLink API usage.
- Pro share a station to give Pro capabilities to up to six friends or colleagues.
- Use Mobilize (web and/or mobile app) for smart farming and gardening.
- Archive interval: 5 minutes.

## WeatherLink Pro+

- Take advantage of the fastest third-party uploads and API usage.
- Protect crops and gardens with our Integrated Pest Management tool.
- Archive interval: 1 minute.



## WeatherLink App

View your current and forecast conditions from your station and the WeatherLink Network of public stations around the world, all from a mobile phone or tablet.

**FREE with WeatherLink Basic.**

Search "Davis WeatherLink Mobile" on iOS and Android app stores.



## Mobilize App

Developed to help commercial growers with critical decisions, Mobilize gives any farmer or sophisticated gardener the power to track site-specific conditions related to irrigation, weather, frost, pest management (Pro+), and more.

See pages 25-26 for details.

Upgrade to Pro or Pro+ to use Mobilize.



# WeatherLink.com: Plans and pricing

	BASIC	PRO		PRO+	
	FREE	1-year Plan, 6561	3-year Plan, 6561A Save 15%	1-year Plan, 6562	3-year Plan, 6562A Save 15%
<sup>1</sup> Bulletin Data Tiles	✓	✓	✓	✓	✓
<sup>2</sup> Data Viewing & Export	✗	✓	✓	✓	✓
<sup>3</sup> WeatherLink Network Map	✓	✓	✓	✓	✓
<sup>4</sup> Custom Charting	✗	✓	✓	✓	✓
<sup>5</sup> Integrated Pest Management	✗	✗	✗	✓	✓
<sup>6</sup> WeatherLink App	✓	✓	✓	✓	✓
<sup>7</sup> Mobilize App	✗	✓	✓	✓	✓
<sup>8</sup> Pro Shares	0	6	6	10	10
<sup>9</sup> Third-party Upload Rate	15 minutes	5 minutes	5 minutes	Up to 1 minute	Up to 1 minute
Archive Interval	15 minutes	5 minutes	5 minutes	1 minute	1 minute

**1. Bulletin Data Tiles:** Build and customize your bulletin dashboard to display current data updates from all of your installed sensors. You can move and resize tiles to see the data just the way you like it.

**2. Data Viewing & Export:** Access all of your raw sensor data at the click of a button. You can sort by date/time or data type and export any data set directly to an Excel-friendly .csv file.

**3. WeatherLink Network Map:** Use the WeatherLink map to view and interact with the community of public stations in our worldwide WeatherLink Network. Click on a station to see a summary of current data and click "bulletin" to see the station's customized weather dashboard.

**4. Custom Charting:** Visualize any of your sensor data with custom line and bar charts on up to four different y-axes. Zoom into an hour of data or out to a full year to view details and trends.

**5. Integrated Pest Management:** Access Integrated Pest Management (IPM) on Mobilize to link your weather and sensor data to actual pest risk, giving you a powerful new tool in protecting your crops from pest damage.

**6. WeatherLink App:** View your current and forecast conditions from your station and the WeatherLink Network of public stations around the world, all from a mobile phone or tablet.

**7. Mobilize App:** Use the Davis Mobilize app to create custom frost, weather, crop, IPM, and irrigation reports to view on WeatherLink.com and mobile. It's robust enough to protect your farm crop from frost—and fun for the data-savvy backyard gardeners looking to perfect their tomato crop.

**8. Pro Shares:** Pro Share your device to give another user access to historical data and charting.

**9. Third-Party Upload Rate:** This is the rate at which you can upload your device's data to a third-party site such as Weather Underground or CWOP, and access data from the WeatherLink API.

*Save 15% with three-year Pro & Pro+ upgrades*

*Pro upgrade is included with an EnviroMonitor Gateway Service Plan.*

## WeatherLink Console: The smart way to view and stream live weather data

Use the WeatherLink Console to visualize and analyze your weather data and when connected to WeatherLink Cloud, use WeatherLink.com or the WeatherLink iOS or Android app to watch wind gusts and direction changes as they occur, from anywhere. Learn more on page 8.



6313 WeatherLink Console/Receiver



Gateways



Nodes



Sensors



Mobilize

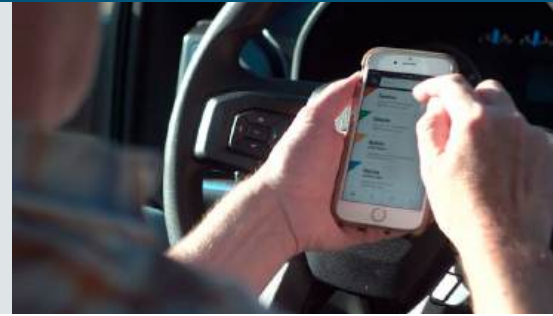


## Measure, Monitor, and Manage

Easy to install, affordable, and third-party sensor compatible. Track site-specific weather and use the easily expandable EnviroMonitor system to build a custom network of sensors to help make critical crop decisions.

# EnviroMonitor: Make critical decisions from anywhere at anytime

EnviroMonitor is a simple and cost-effective way to get critical field data continuously transmitted from the field to your mobile devices or computer. Get the timely and meaningful information you need to manage your crops, reduce risks, and save money.



## EnviroMonitor Gateways

EnviroMonitor Gateways collect all essential data from the Nodes and push it securely to the WeatherLink Cloud via either cellular connectivity, Wi-Fi, or Ethernet. The data can then be accessed on your phone, tablet, and computer. Mounting hardware is included. Requires an Annual Service Plan and a one-time activation fee. (See Annual Service Plans on page 28 for details.)

### EnviroMonitor Gateway

*Cellular+Mesh Network*



Solar-powered Gateway uploads using cellular connectivity. Includes a 5-watt solar panel and a rechargeable 6-volt backup battery encased in a weather-resistant housing. Works with EnviroMonitor Nodes and any sensor suite.

**6802A EnviroMonitor Cellular Gateway (USA)\***

**6803 EnviroMonitor Cellular Gateway (Global)**

### EnviroMonitor IP Gateway

*Wi-Fi/Ethernet+Mesh Network*



The IP Gateway uploads via Wi-Fi or Ethernet. AC-powered with 4 AA batteries (not included) for backup. Includes AC adapter and optional Ethernet cable. Mount indoors or outdoors with a Universal Shelter (6618). (See page 33.) Works with EnviroMonitor Nodes and any wireless or cabled sensor suite.

**6805 EnviroMonitor IP Gateway**

## EnviroMonitor Nodes

Nodes connect over a self-optimizing mesh network and transmit critical sensor data to the EnviroMonitor Gateway. Nodes communicate with each other, allowing complete network flexibility around barriers and across distances. Each EnviroMonitor network can host up to 32 Nodes. The solar-powered Node is self contained and weather resistant. Includes a 3-watt solar panel and mounting hardware.

### Node Features

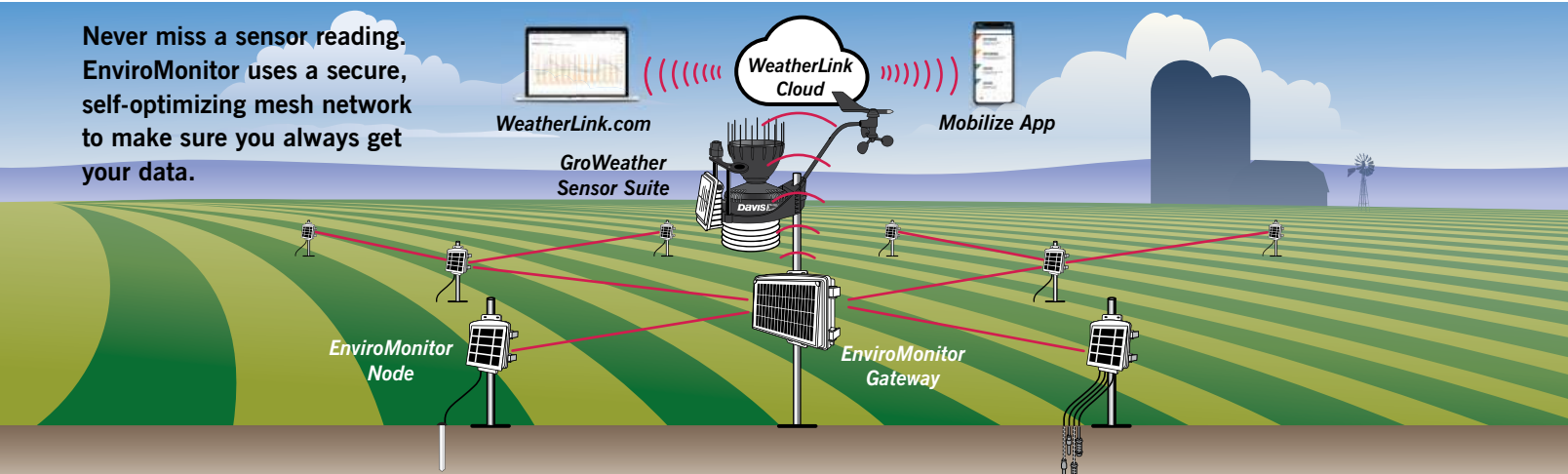


- Connect up to 4 sensors to each Node
- Communication range: Up to 10,000 ft. (3,000 m), Node-to-Node and Node-to-Gateway with 8 dBi Long-Range Antenna (7678).  
*Note: Range varies with terrain and environment. (See page 31.)*
- Configures easily with a smartphone
- Rechargeable lithium-ion battery (included) powers the unit at night
- 4 D-cell batteries (not included) provide backup
- Optional AC adapter (6714) (see page 34.)


**6810 EnviroMonitor Node**

\*Cabled sensor suite only

Never miss a sensor reading. EnviroMonitor uses a secure, self-optimizing mesh network to make sure you always get your data.



# Easily Expandable: EnviroMonitor is compatible with hundreds of different Davis and third-party sensors



**Temperature & Humidity**

**Wind Speed & Direction**

**Rainfall & Rain Rate**

**UV**

**Solar Radiation**

**Barometric Pressure via Gateway**

Calculations include:

**Dew Point**   **Wind Chill & Heat Index**   **Evapotranspiration**   **Wet Bulb**

## It all starts with the weather


Connect a Davis Sensor Suite to the Gateway to get all the benefits of complete weather monitoring. These rugged, low-maintenance sensor suites are available with Solar and/or UV Sensors and a variety of radiation shield options. The IP Gateway can pair with any sensor suite, while the cellular Gateway works with any cabled sensor suite.

See pages 9-10 for sensor suite details.

## Expand effortlessly with Davis and third-party sensors

Each Node can support up to four sensors from Davis and other leading sensor manufacturers. EnviroMonitor is an open-sensor platform that is compatible with hundreds of industry-leading sensors from the manufacturers you know and trust.

See pages 32-34 for Davis sensors.



**Soil Moisture**   **Soil Temperature**   **Soil Salinity**   **Water Level**   **Leaf Wetness**   **Weight**

**Pressure Sensor**   **Pressure Switch**   **Flow Meter**   **Solar Radiation**   **PAR (PPFD)**

**Temperature & Humidity**   **Temperature**   **Wind Speed & Direction**   **Rainfall**   **Carbon Dioxide**

## Compatibility

EnviroMonitor is compatible with SDI-12, analog voltage (i.e. 0-3V; 0-5V; 0-12V), contact closure, pulse, and I2C sensors. We are constantly integrating new sensors to expand the capabilities of the EnviroMonitor platform and software.

Please contact us if you would like a sensor added.



**Supported Sensors: [www.davisinstruments.com/em-sensors](http://www.davisinstruments.com/em-sensors)**

## Easy to Install



Install and manage your entire EnviroMonitor sensor network with Davis Instruments' EnviroMonitor iOS and Android app. **Download for FREE!**

See page 26 for more information on the EnviroMonitor app.

## Measure, Monitor, and Manage



Track all of the data from your EnviroMonitor sensor network with Davis Instruments' Mobilize iOS and Android app. **Download for FREE!**

See pages 25-26 for more information on the Mobilize app.

# Use Case: Getting to the root of the issue

Located in California's beautiful Livermore Valley, this historic boutique winery was built in 1889 and is still producing award-winning wines.

To help use resources wisely and reduce the damage brought on by environmental conditions, they installed an EnviroMonitor system and have been acting on the data since 2018.

**The system includes:**

- 1 EnviroMonitor Gateway (6802A)
- 1 GroWeather Sensor Suite (6820C)
- 4 EnviroMonitor Nodes (6810)
- 3 Watermark™ Soil Moisture Sensors (6440)
- 1 Leaf Wetness Sensor (6420)
- 1 Temperature/Humidity Sensor (6830)
- 2 Sentek™ Soil Moisture Probes
- 4 Gems™ Pressure Switches
- 1 Decagon/Meter™ Soil Moisture Sensor
- 1 Aquacheck™ Soil Moisture Probe

Water is a precious resource in California. With pressure switches and soil moisture sensors, the grower knows when the irrigation system is on and runs it only long enough to penetrate the vines' roots. The Leaf Wetness and Temperature/Humidity Sensors give the team insights on conditions where the grapes are growing. With forecasted data in hand, they can take actions to reduce damage caused by frost, freezing conditions, and heat while tracking chill portions, growing degree days, ET, and much more.

With this installation, the team has the data they want and the ability to add additional Nodes and sensors when they're ready.

The Fenestra Winery installation has been made publicly available for viewing on WeatherLink.com. Search for "Fenestra Winery" and click "bulletin" to view a selection of weather sensors.



*Temperature/Humidity Sensor (6830)*



*Leaf Wetness Sensor (6420)*



*Gems Pressure Switch*

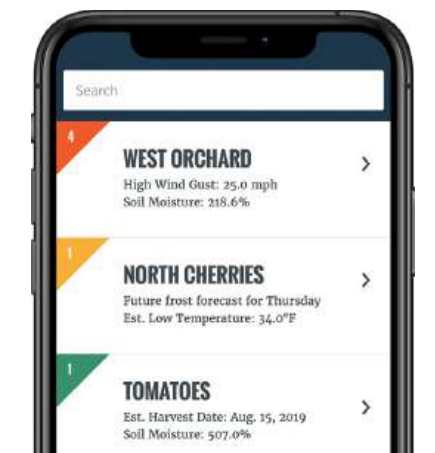
**EnviroMonitor Gateway**

**GroWeather Sensor Suite 6820C**



# Mobilize: Critical field data delivered to your mobile phone

Mobilize is an agriculture-focused, decision-making app with some of the latest advancements in agronomy. You can easily create custom views of your farm, receive alerts, and browse sensor data to track specific report conditions related to weather, frost, irrigation, growth cycle, pest management, and more.



## Mobilize Home

See custom views of your fields or crops.

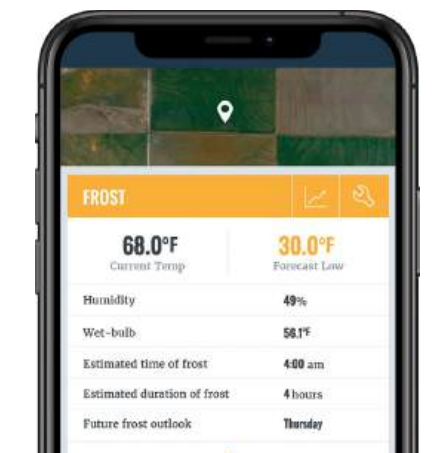
- Color-coded flags alert you immediately to conditions that require your attention.
- Click through for more information on each view.



## Irrigation Management

Track soil moisture levels to know when, where, and how much to irrigate.

- Custom soil moisture thresholds
- Irrigation alerts
- Evapotranspiration (ET) data
- Past and forecast rain totals



## Frost Tracking

Precise forecasting allows you to stay ahead of critical conditions.

- Forecast frost conditions
- View real-time temperature threshold alerts
- Wet-bulb temperature and humidity tracking

# WeatherLink.com: Your field data, your way

WeatherLink.com is the web-based portal for accessing all of your EnviroMonitor data. The website displays reports created in Mobilize and provides more ways to utilize your sensor data.

- Build a custom bulletin dashboard of visual data tiles to track key current conditions.
- Visualize any combination of field data in the chart section.
- Analyze all of your system data in the data section, or export the data into spreadsheet-compatible formats.
- Set custom alerts for specific sensors or calculated conditions.
- Generate and share a daily data summary with anyone on your team.
- Securely share field data with colleagues.



# Forecasting Solutions: Make decisions before problems occur

Mobilize integrates forecasts into reports to help predict growing degree days for harvest, forecast frost conditions before they occur, and estimate future rain to help save water. Decisions are easier when you know what is coming.



## Crop Management

Track key growing degree day (GDD) and chill requirements against custom targets by crop type.

- Chill and growing degree day progress tracking
- Integrated forecasts for planning



## Weather Monitoring

Improve daily decisions with real-time field conditions that help you plan with confidence.

- Spray effectively with location-specific wind data
- Document extreme temperature conditions
- Collect in-field rain data



## Integrated Pest Management

Monitor pest/disease models specific to a long list of crops.

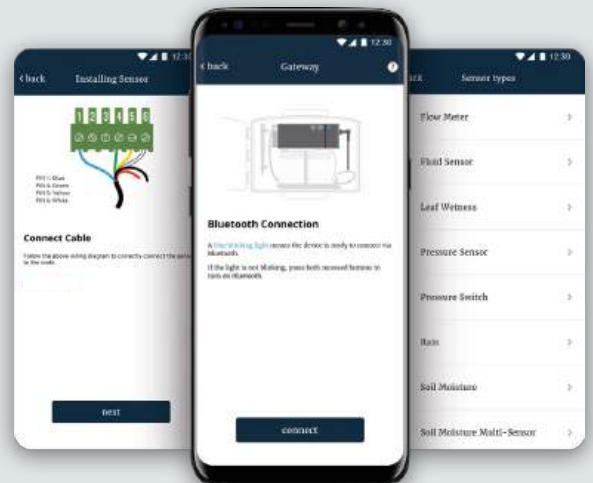
- Track Pest Risk Index
- Update IPM models with remediation actions
- Track past, current, and future pest stages

*Temperature, humidity and leaf wetness sensors and Pro+ WeatherLink upgrade required.*

# EnviroMonitor: Effortless configuration

The EnviroMonitor configuration app is used to easily install, monitor, and interact with your EnviroMonitor hardware and sensor systems.

- Securely connect to Gateways and Nodes with your phone via Bluetooth.
- Easily install and modify sensor configurations on Gateways and Nodes.
- Quickly determine mesh network and Gateway connection strength.
- Remotely identify and troubleshoot any sensor issues.
- Share system access with team members to allow the ability to modify or view specific systems.



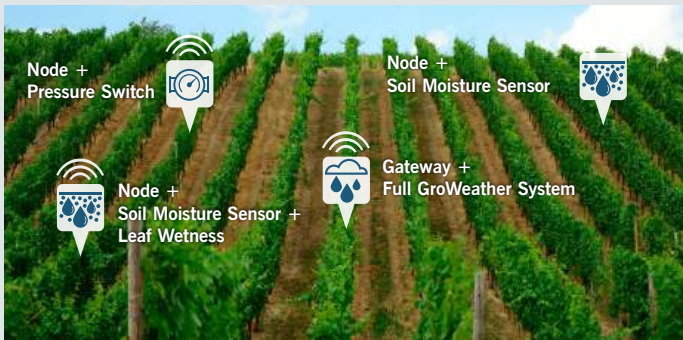
# EnviroMonitor for any application

Build your own or pick from our application-specific systems. No matter how you configure your system, EnviroMonitor provides more features for a lower cost than the competition.



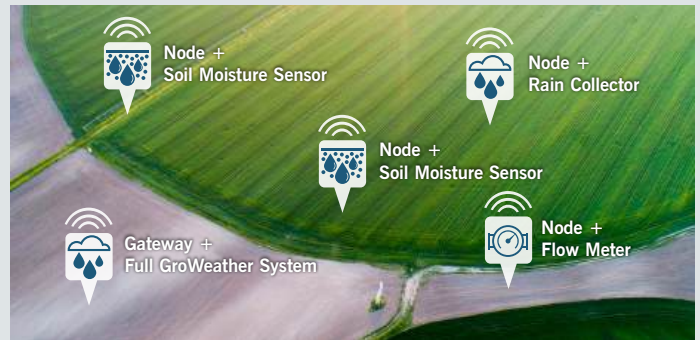
	My Farm, My Weather Monitor field specific weather	IPM System Monitor weather and manage pest conditions	Inversion System Monitor weather and inversion conditions for frost and spray drift
Sensors and Hardware	<ul style="list-style-type: none"> <li>• EnviroMonitor IP Gateway (6805)</li> <li>• GroWeather Sensor Suite (6820)</li> </ul>	<ul style="list-style-type: none"> <li>• EnviroMonitor Gateway (6802A)</li> <li>• EnviroMonitor Node (6810)                             <ul style="list-style-type: none"> <li>- Leaf Wetness Sensor (6420)</li> </ul> </li> <li>• GroWeather Sensor Suite (6820C)</li> </ul>	<ul style="list-style-type: none"> <li>• EnviroMonitor Gateway (6802A)</li> <li>• EnviroMonitor Node (6810)                             <ul style="list-style-type: none"> <li>- 2 Temp/Hum Sensor w/Radiation Shield (6830)</li> </ul> </li> <li>• GroWeather Sensor Suite (6820C)</li> <li>•</li> </ul>
Mobilize Reports & Agricultural Applications	<b>Farm Weather:</b> <ul style="list-style-type: none"> <li>• Rainfall</li> <li>• Frost Alarms</li> <li>• Growing Degree Days</li> <li>• Chill Requirements</li> <li>• Evapotranspiration</li> <li>• Wind Speed &amp; Direction</li> </ul>	<b>Farm Weather Plus:</b> <ul style="list-style-type: none"> <li>• Leaf Wetness</li> <li>• Integrated Pest Management (<i>Requires Pro+ Account</i>)</li> </ul>	<b>Farm Weather Plus:</b> <ul style="list-style-type: none"> <li>• Inversion monitoring for frost and minimizing spray drift risk</li> </ul>
Optional Sensors	<b>Monitor UV conditions:</b> Upgrade to Vantage Pro2 Plus (6327)	<b>Monitor additional canopy conditions:</b> Add Temp/Hum Sensor (6830)	<b>Profile wind for spray conditions:</b> Add extra Anemometer (6410) <b>Manage irrigation:</b> Add Soil Moisture Sensor (6440)

## Applications



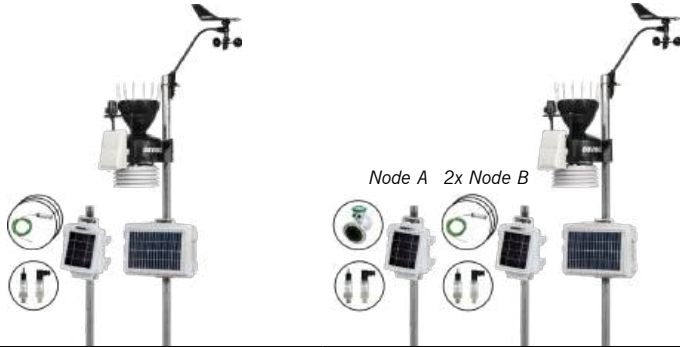
### Vineyard

Set up sensors to trigger alerts when frost is a threat. Stay on top of irrigation needs with soil moisture sensors and a pressure switch.



### Center Pivot

Irrigation is what matters most. Soil moisture sensors throughout the farm will help determine when and how much to irrigate.



## Annual Service Plans

The annual fee is calculated for each Gateway and Node activated and billed on a single anniversary date. EnviroMonitor offers three upload interval choices to meet your needs. A Gateway requires a one-time activation fee (#6645).

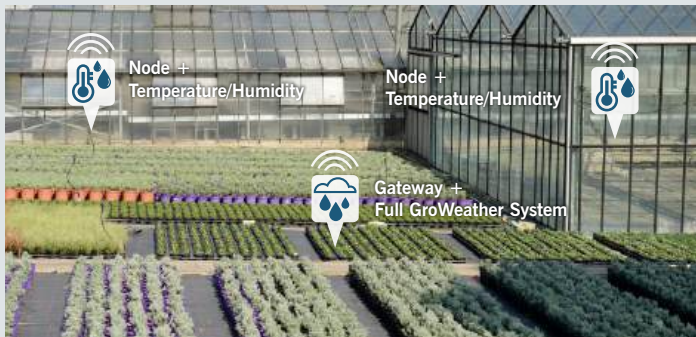
Contact us directly for annual service plan information and availability for customers outside the US.

### Plans for Gateways



Update Interval	Per Gateway Cellular	Per IP Gateway Wi-Fi/Ethernet
1 min	6890	6890D
5 min	6892	6892D
15 min	6894	6894D
60 min	6896	6896D

Irrigation System Monitor weather and a single irrigation set	Advanced Irrigation System Monitor weather, pump flow and two irrigation sets
<ul style="list-style-type: none"> <li>EnviroMonitor Gateway (6802A)</li> <li>EnviroMonitor Node (6810)                             <ul style="list-style-type: none"> <li>- 3 Soil Moisture Sensors (6440)</li> <li>- Pressure Transducer (third-party)</li> </ul> </li> <li>GroWeather Sensor Suite (6820C)</li> </ul>	<ul style="list-style-type: none"> <li>EnviroMonitor Gateway (6802A)</li> <li>GroWeather Sensor Suite (6820C)</li> <li>EnviroMonitor Node A (6810)                             <ul style="list-style-type: none"> <li>- Flow Meter (third-party)</li> <li>- Pressure Transducer (third-party)</li> </ul> </li> <li>2x EnviroMonitor Node B (6810)                             <ul style="list-style-type: none"> <li>- 3 Soil Moisture Sensors (6440)</li> <li>- Pressure Transducer (third-party)</li> </ul> </li> </ul>
<b>Farm Weather Plus</b> <ul style="list-style-type: none"> <li>Irrigation set monitoring</li> <li>Control irrigation costs and overuse</li> </ul>	<b>Farm Weather &amp; Irrigation System Plus:</b> <ul style="list-style-type: none"> <li>Multiple irrigation set monitoring</li> <li>Monitor pump flow</li> </ul>
<b>Monitor additional irrigation sets:</b> Add Node and sensors	<b>Monitor additional irrigation sets:</b> Add Node B and sensors
<b>Monitor multi-level soil moisture:</b> Upgrade to third-party soil moisture profile probe	<b>Monitor multi-level soil moisture:</b> Upgrade to third-party soil moisture profile probe



### Greenhouse and Nursery

Monitor the weather conditions on your site. Measure temperature and humidity inside each greenhouse for a holistic approach to decision-making.



### Row Crops

Monitoring soil moisture is crucial for effective and economic irrigation. Add precise current weather data to track growing degree days.

## Smart Cities

Create flexible networks of sensors to measure a wide variety of conditions: rain, wind, temperature, humidity, and more. Whether you're installing sensors throughout your yard, across the city, or covering an entire state, Davis has a solution that's right for you.



# Build a custom network of Davis sensors

Add Sensor Transmitters to your WeatherLink Console, WeatherLink Live, or Weather Envoy to create a custom network of sensors designed to measure your specific environment.



## 1,000 ft.

(300 m)  
Transmission  
Distance



Solar or AC  
Powered



9 Month  
Battery Backup

## 6

Supported  
Davis Sensors

## 1

Of Each  
Supported Sensor

## 5

Sensor Ports



Wind Speed  
& Direction



Solar  
Radiation



Temperature  
& Humidity  
or



Rainfall



UV



Temperature

## Sensor Transmitters

Sensor Transmitters are the building blocks of your custom network of sensors. They can be positioned indoors or outdoors and are capable of transmitting data up to 1,000 ft. (300 m), line-of-sight. Each transmitter can support up to five sensors, including an Anemometer, Rain Collector, Temperature Probe or Temperature & Humidity Sensor, UV Sensor and Solar Radiation Sensor.

Combine Sensor Transmitters with a WeatherLink Console or WeatherLink Live to take full advantage of the devices' capabilities.

See the *ST* symbol on pages 32-33 for compatible sensors and page 39 for transmitter configuration options.

Includes transmitter in weather-resistant housing, mounting hardware, solar panel, and backup battery.

### 6332 Solar-Powered Wireless Sensor Transmitter

Includes transmitter in weather-resistant housing, mounting hardware, backup battery, and 6.5 ft. (2 m) power adapter cable.

### 6331 AC Powered Wireless Sensor Transmitter



## Wireless Leaf & Soil Moisture/Temperature Station

Robust enough for large-scale agriculture and simple enough for backyard gardening. A fully-populated station can have two Leaf Wetness Sensors, four Soil Moisture Sensors, and four Temperature Probes. Available in two weather-resistant models, without sensors (6345) or with sensors (6345CS). Compatible with 2-Wire Termination Stainless Steel Temperature Probe (6470).

See the *SM* symbol on page 32 for compatible sensors.

Includes transmitter in weather-resistant housing, mounting hardware, solar panel, and backup battery. Add sensors that meet your requirements.

### 6345 Wireless Leaf & Soil Moisture/Temperature Station (without sensors)

Includes transmitter in weather-resistant housing, mounting hardware, solar panel, backup battery, 4 soil moisture sensors, and 4 temperature probes.

### 6345CS Complete Wireless Soil Moisture/Temperature Station with 4 Soil Moisture Sensors and 4 Temperature Probes

NIST



## 1,000 ft.

(300 m)  
Transmission  
Distance



Solar Powered



9 Month  
Battery Backup

## 4



Soil Moisture  
Sensors

## 4



Temperature  
Probes

## 2



Leaf Wetness  
Sensors



## Applications

- Pool
- Greenhouse
- Basement/crawl space
- Garage
- And many others



Separate the Vantage Pro2 Anemometer up to 1,000 ft. (300 m) with a Sensor Transmitter.



Use a Wireless Leaf & Soil Moisture/Temperature Station to monitor important growing conditions.



Monitor temperature and humidity where it matters most.

# Add another console to any room

Add additional WeatherLink Consoles to display weather data in the den, bedroom, kitchen—even in your neighbor’s house if it’s within transmission range. The WeatherLink Console is compatible with the Vantage Vue and Wireless Vantage Pro2 so you can use it with legacy consoles. An additional WeatherLink Console can receive data directly from any of our sensor transmitters (see page 30 & 39 for additional details).

**6313 WeatherLink Console/Receiver**



# Extend the range of your wireless station for miles on end

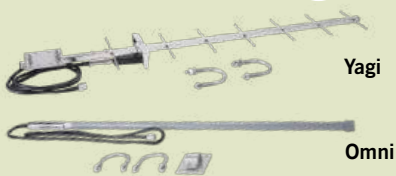
For longer distances or to improve reception in troublesome areas, add one or more Wireless Repeaters. Use repeaters in a daisy chain, retransmitting from a single Vantage Pro2 or Vantage Vue Sensor Suite, or Sensor Transmitter. You can also build a network of repeaters and wireless stations, with some repeaters listening to multiple stations, each with their own unique ID. For use with all Davis wireless transmitters and receivers.

## Long-Range Wireless Repeater

In our testing, we achieved an incredible four miles (6.4 km) of transmission distance using two of our long-range repeaters with Yagi antennas. Range varies depending on antenna height, the terrain and foliage, buildings, other man-made structures, and RF interference. Ideal for agricultural or research applications where long distances are an issue. Solar-powered with lithium backup battery (included). Antennas are sold separately.



**7654 Long-Range Repeater, Solar-Powered**



Yagi

Omni

*Note: FCC regulations require that US customers select from the antennas above; customers outside the US must purchase third-party antennas in compliance with local regulations.*

REPEATER DISTANCES				
Antenna Combination	Multiplier	Maximum Transmission Distance under optimal conditions **		
Dipole – Dipole *	1.00	1,000'	0.2 mile	300 m
Dipole – Omni	1.58	1,580'	0.3 mile	475 m
Dipole – Yagi	3.16	3,160'	0.6 mile	950 m
Omni – Omni	2.50	2,500'	0.5 mile	750 m
Omni – Yagi	5.00	5,000'	1.0 mile	1,500 m
Yagi – Yagi	10.00	10,000'	1.9 miles	3,000 m

\* Dipole antennas are found on all Davis wireless weather stations and standard repeaters.

\*\* Typical distance will be less. Outdoors, line-of-sight with minor obstructions or interference, typical distance is about 50 – 80% of the maximum. Through walls or in areas with high RF interference, typical distance may be as low as 20 – 40% of the maximum.

## Antennas for Long-Range Repeater

For use with our long-range repeater. Each repeater requires two antennas: one to receive data and another to retransmit it. Omni Antennas transmit or receive in all directions. Yagi Antennas transmit or receive from a single direction but have a longer transmission distance. Mix and match to suit your needs using the table above.

**7656 Omni Antenna**

**7660 Yagi Antenna**

## Standard Wireless Repeater

Ideal for most applications. Uses the same dipole antenna found on all of our wireless stations. Range is up to 1,000 ft. (300 m) outdoors, line-of-sight. Typical range through walls is 200 ft. to 400 ft. (60 to 120 m). Solar-powered with lithium backup battery (included).



**7627 Standard Wireless Repeater, Solar-Powered**



## Long-Range Antennas for EnviroMonitor

For use with the EnviroMonitor system. Add high gain external antennas to a Gateway and/or Nodes to increase the transmission distance of an EnviroMonitor mesh network up to 10,000 ft. (3,000 m), Node-to-Node and Node-to-Gateway. Antennas include mounting hardware and 4.8 ft. (1.5 m) cable.

**7676 EnviroMonitor Long-Range Antenna, 5dBi**

**7678 EnviroMonitor Long-Range Antenna, 8dBi**



*Note: FCC regulations require that US customers select from the antennas above; customers outside the US must purchase third-party antennas in compliance with local regulations.*

Antenna	ANTENNA RANGES					
	Installation Height					
	6 ft./2 m		8 ft./2,5 m		10 ft./3 m	
Standard Dipole	1,700'	515 m	1,800'	545 m	2,400'	730 m
5dBi External Antenna	2,600'	790 m	4,000'	1,200 m	6,000'	1,800 m
8dBi External Antenna	5,000'	1,500 m	7,000'	2,100 m	10,000'	3,000 m

# Sensors

## 1. Anemometer\*

Includes both wind speed and wind direction sensors. Rugged components stand up to hurricane-force winds, yet are sensitive to the lightest breeze. Wind-tunnel tested to speeds of 200 miles per hour (322 km/h). Sealed stainless steel ball bearings for long life. Comes complete with mounting hardware. Includes 40 ft. (12 m) cable.

6410 Anemometer



## 2. Sonic Anemometer\*

Measures both wind speed and direction using ultrasonic signals calibrated with temperature. Solar-powered with battery backup. Includes mounting hardware, battery, aligning tool, and 40 ft. (12 m) cable.

6415 Sonic Anemometer



## 3. AeroCone® Rain Collector with Flat Base\* (Tipping Spoon)

Shaped for highest accuracy and designed to meet the guidelines of the World Meteorological Organization. Includes exceptionally accurate self-emptying tipping spoon. Measures in 0.01" or 0,2 mm increments. Flat Base makes mounting to flat surfaces easy. Includes mounting hardware and 40 ft. (12 m) cable, bird spikes, and debris screen.

6464 Rain Collector



## 4. AeroCone® Rain Collector with Mountable Base\* (Tipping Spoon)

Uses the Vantage Pro2 base for easy mounting on a pole, post, or flat surface. Meets the guidelines of the World Meteorological Organization. Measures in 0.01" or 0,2 mm increments. Includes mounting hardware and 40 ft. (12 m) cable, bird spikes, and debris screen.

6466 Rain Collector with Mountable Base



## 5. Leaf Wetness Sensor\*

Use to monitor the level of surface moisture on foliage from 0 (completely dry) to 15 (saturated). Add up to two sensors to a single Wireless Leaf & Soil Moisture/Temperature Station. Includes 40 ft. (12 m) cable.

6420 Leaf Wetness Sensor



## 6. Temperature/Humidity Sensor\*

Features both temperature and humidity sensors inside a protective housing. Ideal for indoor use. Includes mounting hardware and 25 ft. (7,6 m) cable.

6834 Temperature/Humidity Sensor



## 7. Temperature/Humidity Sensor with Radiation Shield\*

Features both temperature and humidity sensors inside a radiation shield which protects the sensors from solar radiation and other sources of radiated and reflected heat. Includes 6 plates, hardware for mounting on a fence post or pole, and 25 ft. (7,6 m) cable.

6830 Temperature/Humidity Sensor with Radiation Shield



## 8. Temperature/Humidity Sensor with 24-Hour Fan-Aspirated Radiation Shield\*

Features both temperature and humidity sensors inside the 24-Hour Fan-Aspirated Radiation Shield which protects the sensors from solar radiation and other sources of radiated and reflected heat. This model includes a solar panel to power the motor-driven fan. Includes 10 plates, hardware for mounting on a fence post or pole, and 25 ft. (7,6 m) cable.

6832 Temperature/Humidity Sensor with 24-Hour Fan-Aspirated Radiation Shield



## 9. Soil Moisture Sensor

Uses electrical-resistance Watermark soil moisture sensor to measure the moisture level of the soil. Does not require periodic maintenance during the growing season. Simply bury at the desired depth to monitor moisture levels throughout the season. Add up to four sensors to a single Leaf & Soil Moisture/Temperature Station. Includes 15 ft. (4,6 m) cable.

6440 Soil Moisture Sensor



## 10. Stainless Steel Temperature Probe with 2-Wire Termination

Multi-purpose temperature probe with 2.5" (64 mm) long stainless steel housing. Use to measure temperature of air, soil, or water. Add up to four probes to a single Leaf & Soil Moisture/Temperature Station. Includes 15 ft. (4,6 m) direct-burial cable.

6470 Stainless Steel Temperature Probe with 2-Wire Termination



## 11. Stainless Steel Temperature Probe with RJ Connector\*

Multi-purpose temperature probe with 2.5" (64 mm) long stainless steel housing. Use to measure temperature of air, soil, or water. Use with Weather Envoy or Sensor Transmitters. Includes 25 ft. (7,6 m) cable.

6475 Stainless Steel Temperature Probe with RJ Connector



## 12. Temperature Probe with RJ Connector\*

Temperature probe with durable plastic housing. Use to measure temperature of air, soil, or water. Use with Weather Envoy or Sensor Transmitters. Includes 25 ft. (7,6 m) cable.

6477 Temperature Probe with RJ Connector



COMPONENTS NOT SHOWN TO SCALE

\*Sensor comes with RJ Connector. RJ Connector Node Adapter (part #6860) needed when using with EnviroMonitor.





\*Sensor comes with RJ Connector. RJ Connector Node Adapter (part #6860) needed when using with EnviroMonitor.

#### 14. Solar Radiation Sensor\*

Measures the intensity of solar irradiance, enabling display of incident power (Watts per square meter) and cumulative energy (Langleys). Diffuser element and housing are designed specifically for accurate cosine response. Silicon photo diode provides a good match to solar spectrum. Two-piece housing minimizes radiation

heating, allows convection cooling of the sensor, and prevents the trapping of water or dust. To mount next to a Rain Collector, use the Sensor Mounting Shelf. Use the Universal Mounting Bracket for other applications. Includes 2 ft. (0,6 m) cable.

#### 6450 Solar Radiation Sensor



#### 15. UV Sensor\*

Measures the intensity of the sunburning portion of the UV spectrum (UVA and UVB), closely matching the Erythema Action Spectrum. Allows you to display UV index, dose rate, and daily and accumulated dose. Latest technology transducer and newly designed electronics provide greater accuracy and stability. The comb structure provides improved cosine response accuracy at zenith angles up to 90 degrees. Two-piece housing minimizes radiation heating, allows convective cooling of the sensor, and prevents the trapping of water or dust. To mount next to a Rain Collector, use the Sensor Mounting Shelf. Use the Universal Mounting Bracket for other applications. Includes 2 ft. (0,6 m) cable.

#### 6490 UV Sensor

PATENTED



#### 16. Sensor Mounting Shelf

For mounting Solar Radiation and/or UV Sensors. Rigid shelf with anodized aluminum posts and stainless steel hardware attaches easily next to the rain collector of the Vantage Pro2 Sensor Suite.

#### 6673 Sensor Mounting Shelf

#### 16A. Vantage Pro2 Plus Upgrade Kit

Includes Solar Radiation Sensor, UV Sensor and Sensor Mounting Shelf. Note: The upgrade kit is not preassembled.

#### NEW 6496 Vantage Pro2 Plus Upgrade Kit

#### 17. Universal Mounting Bracket

For mounting a Solar Radiation Sensor, UV Sensor, or Radiation Shield (7714). Bracket is pre-drilled for easy mounting. Includes mounting hardware.

#### 6670 Universal Mounting Bracket



See pages 9-10 for our line of sensor suites.  
See page 40 for extension cables and maximum cable lengths.

## Accessories



See [www.davisinstruments.com/weather/uses](http://www.davisinstruments.com/weather/uses) to view various ways to use these kits and shelter.

#### 1. Solar Power Kit

Large solar panel powers a wireless Vantage Pro2 console or Weather Envoy inside a weather-resistant shelter. (Outdoor sensors are powered by the solar panel on the sensor suite). Includes a 5-watt solar panel, weather-resistant shelter, regulator circuit, 1.4-amp-hour 6-volt rechargeable battery, mounting hardware, and 10 ft. (3 m) cable.

#### 6614 Solar Power Kit

#### 2. Heavy-Duty Solar Power Kit

Our large solar panel and a 12-amp-hour battery provide enough power for a cabled console and outdoor sensor suite or wireless console where more power is needed. There is enough room inside the weather-resistant shelter to mount a Weather Envoy. When used with a Vantage Vue or Vantage Pro2 Console, mount the console inside a Universal Shelter. Includes 5-watt solar panel, weather-resistant shelter, regulator circuit, 12-amp-hour 6-volt rechargeable battery, mounting hardware, and 10 ft. (3 m) cable.

#### 6612 Heavy Duty Solar Power Kit

#### 3. Extra Solar Panel Kit

Provides additional charging power to the battery in your Solar Power Kit (6612 or 6614) or EnviroMonitor Gateway for installations where sunlight is limited. The 5-watt solar panel is mounted on a weather-resistant shelter in which a console or Envoy can be mounted. Includes 5-watt solar panel, weather-resistant shelter, mounting hardware, and a 4 ft. (1,2 m) cable.

#### 6616 Extra Solar Panel Kit



#### 4. Universal Shelter

Protects console and other components located outdoors. Weather-resistant enclosure provides protection from the elements for a Vantage Pro2 console or Vantage Vue console with or without a WeatherLink data logger, an EnviroMonitor IP Gateway, or for a Weather Envoy with WeatherLink data logger. Includes mounting hardware. Measures 13.75" x 10" x 4.18" (34,9 cm x 25,4 cm x 10,6 cm).

#### 6618 Universal Shelter





### 5. Shelter Angle Bracket

Changes the EnviroMonitor Gateway or Universal Shelter solar panel's angle from 5 degrees to 30 degrees to increase efficiency at lower latitudes. Includes mounting hardware.

#### 6671 Shelter Angle Bracket



### 6. AC Charger Kits

Charges the battery in an EnviroMonitor Gateway/Node where sunlight is too low to use solar. Includes 5.5 ft. (1,6 m) cable.

#### 6710 AC Charger Kit for Cellular EnviroMonitor Gateway



#### 6714 AC Power Kit for EnviroMonitor Node



### 7. Rain Collector Heater

For older sensor suites that do not have the AeroCone. Heater and insulation fit neatly inside the old style rain collector. For use in cold climates to measure freezing rain or the moisture content of snowfall. Requires access to AC power; cannot be run using a solar power kit. Includes 24-watt, 24-volt heater with thermal cut-off switch, control unit, insulating reflective blanket, AC adapter, and 50 ft. (15 m) cable.

#### 7720 Rain Collector Heater

### 7 & 7a. Rain Collector and Heater

For sensor suites with an AeroCone. Temporarily replace your rain cone with a straight-sided rain cone in order to use the heater. In addition to components listed above (in 7), this product includes the rain collector, debris screen, and bird spikes.

#### 7721 Rain Collector and Heater

### 8. 3-volt Lithium Battery CR123

Replacement 3-volt lithium battery (CR123).

#### 8415 3-volt Lithium Battery CR123



### 9. 6-volt 12Ah Battery

Replacement 6-volt 12Ah battery for EnviroMonitor Gateway.

#### 6712 6-volt 12Ah Battery

### 10. RJ Connector Node Adapter

Connect sensors with RJ connectors to your EnviroMonitor Node with this adapter.

#### 6860 RJ Connector Node Adapter

### 11. Radiation Shield

Received a 5-star rating from the World Meteorological Organization. Protects temperature sensors from solar radiation and radiated or reflected heat sources. Multi-plate construction for maximum airflow. Use with Leaf & Soil Moisture/Temperature Station and all temperature sensors. Or, install your own sensor in the sensor chamber. Sensor chamber: 4.25" x 2.5" (107,9 mm x 63,5 mm). Includes 8 plates, mounting bracket, and mounting hardware.

**7714 Radiation Shield** Assembly required.

### 12. Daytime Fan-Aspirated Radiation Shield Kit

An economical way to add the benefits of fan aspiration by retrofitting your Vantage Pro2 or Pro2 Plus. Less costly than our 24-Hour Fan-Aspirated Radiation Shield, but nearly 75% as effective in reducing the effects of daytime radiation. With no backup battery, the fan only runs during daylight hours and will cease running at night when solar radiation effects are reduced. Includes fan, solar panel, additional radiation shield plates, and hardware.

#### 7747 Daytime Fan-Aspirated Radiation Shield Kit



### 13. 24-Hour Fan-Aspirated Radiation Shield

Our 24-Hour Fan-Aspirated Radiation Shield helps maximize accuracy of sensor readings. A motor-driven fan draws a constant airflow through the sensor chamber at 500 feet per minute (2,5 m/s). At night, when the effects of radiation are less, this solar-powered model runs on battery power and the airflow slows to 280 feet per minute (1,4 m/s). Install your own sensor in the sensor chamber. Sensor chamber: 2.24" x 3" (56,8 mm x 76,2 mm). Includes 10 plates, rechargeable batteries, mounting hardware, and 25 ft. (7,6 m) cable.

#### 6838 24-Hour Fan-Aspirated Radiation Shield

### 14. Replacement Motor Kit without Batteries

Replacement motor for the Daytime Fan-Aspirated Radiation Shield. We recommend replacing every two years.

#### 7758 Replacement Motor

### 15. Replacement Motor Kit with Batteries

Replacement motor for the 24-Hour Fan-Aspirated Radiation Shield. Includes two rechargeable C-batteries. We recommend replacing every two years.

#### 7758B Replacement Motor and Replacement Batteries

### 16. USB Power Cords

Powers the AirLink, WeatherLink Live, Vantage Vue Console, Vantage Pro2 Console, EnviroMonitor IP Gateway, AC Powered Wireless Sensor Transmitter, or the Weather Envoy. Includes 6.5 ft. (2 m) or 25 ft. (7,6 m) cable.

#### 6627 USB Power Cord 6.5 ft. (2 m)

#### 6628 USB Power Cord 25 ft. (7,6 m)



## Accuracy You Can Rely On

We subject our products to harsh environmental testing. Every station goes through a minimum of 10 tests before shipping. If it's a Davis, it's accurate and reliable.



Function		Ventage Vue	Ventage Pro2	USA Units			Metric Units		
				RESOLUTION	RANGE	ACCURACY ±	RESOLUTION*	RANGE	ACCURACY ±
AGRICULTURAL	Evapotranspiration	✓	●	0.01"	0 to 199.99"	5%	0,1 mm	0 to 1999,9 mm	5%
	Growing Degree-Days	✓	○	0.1 Degree-Day	Unlimited	0.5 Degree-Day	0,1 Degree-Day	Unlimited	0,3 Degree-Day
	Cooling/Heating Degree-Days	✓	○	0.1 Degree-Day	Unlimited	0.5 Degree-Day	0,1 Degree-Day	Unlimited	0,3 Degree-Day
	Leaf Wetness	✓	●	1	0 to 15	0.5	1	0 to 15	0.5
	Soil Moisture	✓	●	1 cb	0 to 200 cb		1 cb	0 to 200 cb	
BAROMETRIC PRESSURE	Barometric Pressure (Elevation range: -999' to +15,000'; -600 to +4570 m)	✓	✓	0.01" Hg	16" to 32.5" Hg	0.03" Hg	0,1 mm Hg 0,1 mb or hPa	410 to 820 mm Hg 540 to 1100 mb or hPa	0,8 mm Hg 1,0 mb or hPa
	Three-Hour Trend	✓	✓	Slow ≥ 0.02" Hg Rapid ≥ 0.06" Hg	5-Position Arrow		Slow ≥ 0,5 mm (0,7 mb) Rapid ≥ 1,5 mm (2 mb)	5-Position Arrow	
HUMIDITY	Inside Humidity	✓	✓	1%	1% to 100%	2%	1%	1% to 100%	2%
	Outside Humidity Sensor Suite	✓	✓	1%	1% to 100%	2%	1%	1% to 100%	2%
	Outside Humidity (T/H Sensors)	✓	●	1%	1% to 100%	2%	1%	1% to 100%	2%
	Outside Humidity (VP2 T/H Stations)	✓	●	1%	1% to 100%	2%	1%	1% to 100%	2%
	Inside Dew Point	○	○	0.1°F	-60° to +140°F	2°F	0,1°C	-50° to +60°C	1°C
	Outside Dew Point Vue	✓	○	1°F	-105° to +130°F	2°F	1°C	-76° to +54°C	1°C
	Outside Dew Point VP2 Sensor Suite	✓	✓	1°F	-105° to +130°F	2°F	1°C	-76° to +54°C	1°C
RAINFALL	Rainfall	✓	✓	0.01"	0 to 199.99"	3% 4%	0,2 mm	0 to 6553 mm	3% 4%
	Rate of Rainfall	✓	✓	0.01"/hr	0 to 30"/hr	5% ≤ 10"/hr	0,1 mm/hr	0 to 762 mm/hr	5% ≤ 254 mm/hr
SOLAR & UV	Solar Radiation	✓	●	1 W/m2	0 to 1800 W/m2	5%	1 W/m2	0 to 1800 W/m2	5%
	Solar Energy	✓	○	0.1 Ly	1999.9 Ly	5%	0,1 Ly	1999,9 Ly	5%
	UV Dose	✓	●	0.1 MEDs	0 to 199 MEDs	5%	0,1 MEDs	0 to 199 MEDs	5%
	UV Index	✓	●	0.1	0 to 16	5%	0,1	0 to 16	5%
TEMPERATURE	Inside Temperature	✓	✓	0.1°F	+32° to +140°F	0.5°F	0,1°C	0° to +60°C	0,3°C
	Outside Temperature Sensor Suite	✓	✓	0.1°F	-40° to +150°F	0.5°F	0,1°C	-40° to +65°C	0,3°C
	Outside Temp (Extra Temp Sensor)	✓	✓	1°F	-40° to +150°F	1°F	1°C	-40° to +65°C	1°C
	Outside Temp (Extra Temp Probe)	✓	●	1°F	-50° to +150°F	1°F	1°C	-45° to +65°C	1°C
	Soil or Water Temp (Temp Station)	✓	●	1°F	-40° to +150°F	1°F	1°C	-40° to +65°C	1°C
	Inside Heat Index	○	○	0.1°F	+32° to +999°F	2°F	0,1°C	0° to +537°C	1°C
	Outside Heat Index Vue	✓	○	1°F	-40° to +165°F	2°F	1°C	-40° to +74°C	1°C
	Outside Heat Index VP2 Sensor Suite	✓	✓	1°F	-40° to +165°F	2°F	1°C	-40° to +74°C	1°C
	Temp/Hum/Wind Index Vue	○	○	0.1°F	-110° to +165°F	3°F	0,1°C	-79° to +74°C	1,5°C
	Temp/Hum/Wind Index VP2 Sensor Suite	✓	○	1°F	-110° to +165°F	2°F	1°C	-79° to +74°C	1°C
	Temp/Hum/Solar/Wind Index VP2 Sensor Suite	✓	●	1°F	-90° to +165°F	4°F	1°C	-68° to +74°C	2°C
	Wind Chill Vue	✓	○	1°F	-110° to +135°F	2°F	1°C	-79° to +57°C	1°C
	Wind Chill Sensor Suite on VP2	✓	✓	1°F	-110° to +135°F	2°F	1°C	-79° to +57°C	1°C
	Wet-bulb	✓	○	1°F	-40° to +150°F	2°F	1°C	-40° to +65°C	1°C
TIME/DATE	Time	✓	✓	1 minute	12/24 hours	8 sec/mo	1 minute	12/24 hours	8 sec/mo
	Date	✓	✓	month/day	Leap Year	8 sec/mo	day/month	Leap Year	8 sec/mo
	Sunrise & Sunset	✓	✓	1 minute	12 hours	1 minute	1 minute	24 hours	1 minute
WIND	Wind Direction	✓	✓	1°	0° to 360°	3°	1°	0° to 360°	3°
	Compass Rose	✓	✓	22.5°	16 compass points		22,5°	16 compass points	
	Wind Speed (Standard Anemometer)	✓	✓	1 mph 1 knot	1 to 200 mph 1 to 174 knots	5%	0,1 m/s 1 km/hr	1 to 80 m/s 1 to 320 km/hr	5%
	Wind Speed (Sonic Anemometer)	✓	●	1 mph 1 knot	0 to 89 mph 0 to 78 knots	4%	0,1 m/s 1 km/hr	0 to 40 m/s 0 to 144 km/hr	4%
	Direction of High Speed	✓	✓	22.5°	16 compass points		22,5°	16 compass points	
	Wind Run	○	○	0.01 miles 0.01 nautical miles	Unlimited	5%	0,01 kilometers	Unlimited	5%

Except for rainfall, all variables are measured in US units of measure and rounded to the nearest metric unit shown in the Resolution column.

- ✓ Included
- Optional sensor required, but shown on console
- Optional and requires WeatherLink.
- Solar Energy requires Solar Radiation sensor.

\*Resolution refers to the number of digits or decimal places displayed on the console. For metric units, this is not the actual unit of measure except for rainfall. Our rain collector measures in true 0.01" or 0,2 mm increments. All other weather variables are measured and accumulated in US units of measure, which are then converted to metric units for display purposes.

For complete specifications, visit [www.davisinstruments.com/resources/weather-monitoring/#support](http://www.davisinstruments.com/resources/weather-monitoring/#support) then click on Specification Sheets.

# Which sensors can you use with your transmitter?

See pages 40 for the maximum number of transmitters that can report to a single Vantage Pro2/Vue console, WeatherLink Console, WeatherLink Live or Weather Envoy.

- Included
- Optional
- 4 Maximum sensors for that transmitter

		WIRELESS TRANSMITTERS																	
		Product No.	62.42 Vantage Vue	63.57 Vantage Vue Sensor Suite	62.52 Vantage Pro2	63.22 Vantage Pro2 Sensor Suite	62.53 Vantage Pro2 with Fan-Aspirated Rad Shield	63.23 Vantage Pro2 Sensor Suite with Fan-Aspirated Rad Shield	62.62 Vantage Pro2 Plus	63.27 Vantage Pro2 Plus Sensor Suite	62.63 Vantage Pro2 Plus with Fan-Aspirated Rad Shield	63.28 Vantage Pro2 Plus Sensor Suite with Fan-Aspirated Rad Shield	68.20 GroWeather Sensor Suite with Solar Radiation Sensor and Passive Radiation Shield	63.45 Leaf Wetness & Soil Moisture/Temp Station w/o sensors	63.45CS Complete Soil Moisture/Temp Station	63.32 Solar-Powered Wireless Sensor Transmitter	63.31 AC Powered Wireless Sensor Transmitter	68.10 EnviroMonitor Node	
Sensor Options and Accessories	Integrated Rain Collector	--	●	●	●	●	●	●	●	●	●	●	●						
	Rain Collector	7852														●	●	●	
	Integrated Anemometer	--	●																
	Detachable Anemometer	6410			●	●	●	●	●	●	●	●	●			●	●	●	
	Sonic Anemometer	6415			●	●	●	●	●	●	●	●	●			●	●	●	
	Integrated Temperature/Humidity	--	●	●	●	●	●	●	●	●	●	●	●						
	Stainless Steel Temperature Probe with 2-Wire Termination	6470												4	4				●
	Temperature Probe with RJ Connector*	6477															●	●	●
	Stainless Steel Temperature Probe with RJ Connector*	6475															●	●	●
	Temperature/Humidity Sensor with Radiation Shield	6830															●	●	●
	Temperature/Humidity Sensor with 24-Hour Fan-Aspirated Radiation Shield	6832															●	●	●
	Temperature/Humidity Sensor	6834															●	●	●
	Passive Radiation Shield	7714	●	●			●			●			●	●	●	●	●	●	●
	Daytime Fan-Aspirated Radiation Shield	7747			●				●				●						
	24-Hour Fan-Aspirated Radiation Shield	6838				●	●				●	●					●	●	●
	Solar Radiation Sensor	6450			●	●			●	●	●	●	●				●	●	●
	UV Radiation Sensor	6490			●	●			●	●	●	●	●				●	●	
	Sensor Mounting Shelf for UV/Solar	6673			●	●			●	●	●	●	●						
Leaf Wetness Sensor	6420												2	2				●	
Soil Moisture Sensor	6440												4	4				●	
Third-party sensors	--																	●	




\*Can also be used with Weather Envoy to replace the internal temperature sensor.

Current Draw & Battery Life		Current Draw in Milliamperes			Estimated Backup Battery Life in Days	
		Lights Off	Lights On	With Data Logger (USB/SER)	Without Data Logger	With Data Logger (USB/SER)
WeatherLink Console		1.3A max; 500mA average (depending on battery charging state and Console brightness)			Up to 14 hours	
Vantage Pro 2	Cabled	10	170	10	27 days	27 days
Weather Envoy	Wireless	1	N/A	1	N/A	4 months
	Cabled	10	N/A	10	N/A	10 days
WeatherLink Live	Wireless	100			Up to 6 days	



# Which transmitters can you use with your receiver?

See pages 40 for the maximum number of transmitters that can report to a single Vantage Pro2/Vue Console, WeatherLink Live or Weather Envoy.

-  Included
-  Optional
-  Included but additional can be added

		SYSTEMS & RECEIVERS									
		WIRELESS								CABLED	
		6313 WeatherLink Console	6250 Vantage Vue	6252 Vantage Pro2	6253 Vantage Pro2 with Fan-Aspirated Rad Shield	6262 Vantage Pro2 Plus	6263 Vantage Pro2 Plus with Fan-Aspirated Rad Shield	6316 Wireless Weather Envoy	6351 Vantage Vue Console only	6312 Vantage Pro2 Console only	6316C Cabled Weather Envoy
		Product No.									
WeatherLink Console	WeatherLink Console	6313	●	●	●	●	●	●	●	●	
	Vantage Vue Sensor Suite	6357	●	●				●	●	●	
	Wireless Vantage Pro2 Sensor Suite	6322	●		●			●	●	●	
	Wireless Vantage Pro2 Sensor Suite with 24-Hour Radiation Shield	6323	●			●		●	●	●	
	Wireless Vantage Pro2 Sensor Suite with UV-Solar	6327	●				●	●	●	●	
	Wireless Vantage Pro2 Sensor Suite with 24-Hour Radiation Shield & UV Solar	6328	●					●	●	●	
	Wireless GroWeather Sensor Suite with Solar Radiation Sensor	6820	●					●	●	●	
	Wireless WeatherLink Live	6100	●	●	●	●	●	●	●	●	
	Wireless Weather Envoy	6316	●	●	●	●	●	●	●	●	
	Wireless Leaf & Soil Moisture/Temperature Stations	6345	●		●	●	●	●		●	
	Complete Soil Moisture/Temperature Station	6345CS	●		●	●	●	●		●	
	Solar-Powered Wireless Sensor Transmitter	6332	●		●	●	●	●	●	●	
	AC Powered Wireless Sensor Transmitter	6331	●		●	●	●	●	●	●	
	Standard Wireless Repeater, AC-Powered	7626	●	●	●	●	●	●	●	●	
	Standard Wireless Repeater, Solar-powered	7627	●	●	●	●	●	●	●	●	
	Long-Range Wireless Repeater, Solar-Powered	7654	●	●	●	●	●	●	●	●	
Solar Power Kit for Wireless (includes 1.4 amp hour 6-volt battery)	6614	●	●	●	●	●	●	●	●		
Cabled Options	Cabled Weather Envoy	6316C									●
	Cabled Vantage Pro2 Sensor Suite	6322C									●
	Cabled Vantage Pro2 Sensor Suite with UV & Solar	6327C									●
	Cabled GroWeather Sensor Suite with Solar Radiation Sensor	6820C									●
	Heavy Duty Solar Power Kit (includes 12 amp hour 6-volt battery) *	6612		●	●	●	●	●	●	●	●
Installation Options	Rain Collector Heater (compatible with straight-sided rain cone)	7720			●	●	●	●			
	Mounting Tripod	7716		●	●	●	●	●			
	Mounting Pole Kit	7717		●	●	●	●	●			
	Extra Solar Panel Kit **	6616									
	Universal Shelter	6618	●	●	●	●	●	●	●	●	●
	Daytime Fan-Aspirated Radiation Shield	7747			●		●				
	Sensor Mounting Shelf	6673			●	●	●	●			

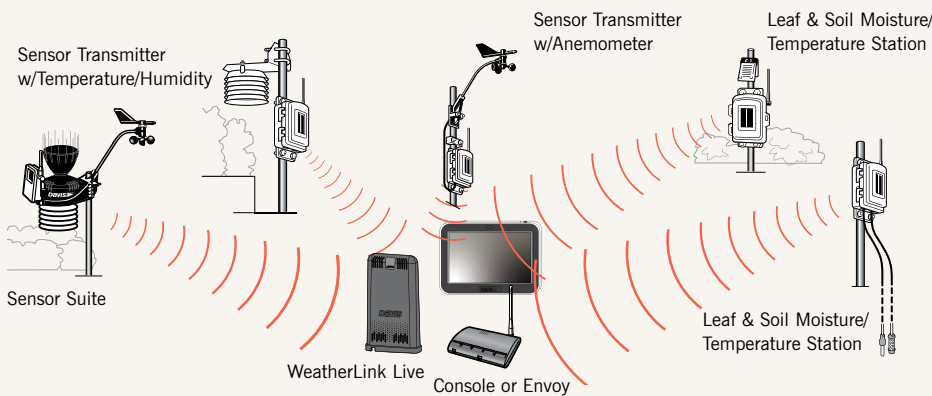
\* Can also be used on wireless stations when more power is needed.

\*\* Can be paired with 6612, 6614 and 6803

# View installation diagrams [here](#)

## WHICH SENSORS CAN YOU USE WITH YOUR CONSOLE/RECEIVER

Sensor Type	WeatherLink Console		WeatherLink Live		Weather Envoy	EnviroMonitor
	Console		Receiver		Receiver	Receiver
	Shown	Logged	Shown	Logged	Logged	Logged
Anemometer	8	8	8	8	1	80+
Temperature Probe	32	32	32	32	3	80+
Temperature/Humidity	8	8	8	8	4/3	80+
Rain	8	8	8	8	1	80+
UV	8	8	8	8	1	80+
Solar Radiation	8	8	8	8	1	80+
Leaf Wetness	16	16	16	16	2	80+
Soil Moisture	32	32	32	32	4	80+
Third-Party Sensors	0	0	0	0	0	80+ *



"Shown" = Current conditions seen on the display or WeatherLink

"Logged" = Stored historical archive records on the WeatherLink Cloud

\* See page 23 or go to [www.davisinstruments.com/em-sensors](http://www.davisinstruments.com/em-sensors) for supported sensors.

**Each WeatherLink Console, WeatherLink Live, and Weather Envoy can receive data from up to eight different transmitting stations.**



## EXTENSION CABLES

Our Standard 4-Conductor Extension Cables include a coupler kit (protective shell; cable coupler; and five waterproof, silicone-filled, crimp-style splice connectors) for joining two cables together, indoors or out. Use the chart below to determine maximum cable lengths.

Product	Cable Length	
	Included Cable Length	Maximum Cable Length
Wireless Vantage Pro2	40' (12 m)	240' (73 m)*
Cabled Vantage Pro2 Sensor Suite	100' (30 m)	1000' (300 m)
WeatherLink for Vantage Pro2 and Vantage Vue (serial port versions)**	8' (2,4 m)	48' (14,6 m)
Solar Radiation Sensor (6450)	2' (0,6 m)	125' (38 m)
UV Sensor (6490)	2' (0,6 m)	125' (38 m)
Stainless Steel Temperature Probe with RJ Connector (6475)	25' (7,6 m)	200' (61 m)
Temperature Probe with RJ Connector (6477)		
Leaf Wetness Sensor (6420)	40' (12 m)	200' (61 m)
Anemometer (6410) & Sonic Anemometer (6415)	40' (12 m)	240' (73 m)*
Rain Collector (standalone, 7852)	40' (12 m)	900' (270 m)
Rain Collector with Mountable Base (7857)	40' (12 m)	900' (270 m)
Temperature/Humidity Sensor (6830) (6832)	25' (7,6 m)	25' (7,6 m)

\* **Anemometer (6410) Cables:** Maximum displayable wind speed decreases as the length of cable increases. At 140' (42 m) of cable, the maximum wind speed displayed is 135 mph (60 m/s). At 240' (73 m) of cable, the maximum wind speed displayed is 100 mph (45 m/s).

\*\* **WeatherLink USB:** Extension cables may be purchased from a computer supplier.

To extend the cables on the Temperature Probe (6470), Soil Moisture Sensor (6440), and Rain Collector Heater (7720), please call us directly.



**NIST** **NIST-Traceable Sensors**

In the USA, the National Institute of Standards & Technology (NIST) develops and maintains the standards of measurement to which all others are ultimately traced. Numerous calibrations, tests, and measurement assurance programs are delivered directly to approximately 10,000 companies. From these companies, NIST-traceable intermediate service providers are the next link in a network that joins together the makers and users of precision instruments.

Davis Instruments is proud to provide this calibration service in our California factory utilizing NIST-traceable references for those customers who require it. For users who require this additional service, calibration of new and previously owned sensors is available. For the cost of individual sensors, please contact us for pricing.

**Limited Warranty**

We warrant our products to be free of defects in material and workmanship for one year from date of original purchase. While we make every effort to carefully manufacture our products to the highest standards of quality, occasionally parts may be found to be missing, defective or damaged. If you have a defective part, return the product to us, shipping charges prepaid. Include proof of purchase and a written explanation of the trouble. During the warranty period, we will, at our option, either repair or replace the product free of charge. This warranty does not cover damage due to improper installation or use, lightning, negligence, accident or unauthorized service, or to incidental or consequential damages beyond the Davis products themselves. Implied warranties are limited in duration to the life of this limited warranty. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental and consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You may have other rights, which vary from state to state or country to country.

Details, specifications, and prices are subject to change at any time without notice.

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If for any reason you are unsatisfied with anything purchased from us, return it within 30 days and we will gladly refund your purchase price. Shipping charges are not refundable.

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**7**  
Leaf Wetness

