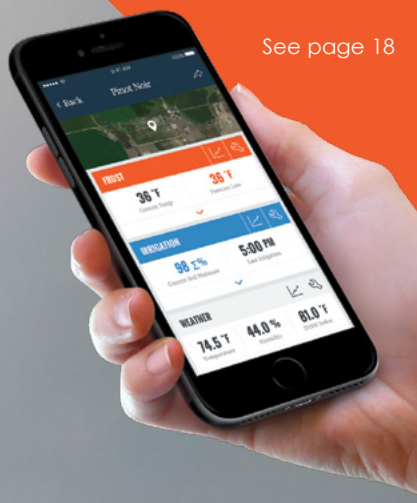
Precision WEATHER INSTRUMENTS

WEATHER MONITORING SYSTEMS FOR HOME, AGRICULTURE, INDUSTRY AND EDUCATION

ENVIROMONITOR®

A New System to: Measure, Monitor & Manage

See page 18



LOCAL OR REMOTE: YOUR WEATHER IN REAL TIME

2018 CATALOG–GLOBAL

Davis Instruments

WWW.DAVISNET.COM

ISO 9001 CERTIFIED COMPANY

From Elegantly Simple to the Ultimate in Flexibility

At Davis Instruments, we take great pride in offering you a range of weather stations that are designed to provide the highest level of accuracy, reliability and ruggedness. Whether you are a weather hobbyist who simply observes the weather, or someone who relies on accurate weather data for farming, research or business, you will find a Davis weather station to meet your needs.

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What's New?

WeatherLink®: WeatherLink.com and the WeatherLink Mobile App have been completely redesigned with a new look, experience and features. Customizing your views to see what matters most to you and sharing your info with others has never been easier. *(Page 15)*

EnviroMonitor®: A comprehensive system that allows you to measure and manage key elements you need to keep crops healthy, save money and improve yields. *(Page 18)*

Use real-time data to make well-informed decisions on key issues including:

- Irrigation management
- Frost conditions
- Crop management
- Soil conditions
- Weather events

6670 Universal Mounting Bracket: For mounting a solar radiation sensor, a UV sensor, or a radiation shield. Bracket is pre-drilled for easy mounting. Includes mounting hardware. *(Page 24)*

6671 Shelter Angle Bracket: Changes solar panel's angle from 5 degrees to 30 degrees. Increases solar panel's efficiency at lower latitudes. Includes mounting hardware. *(Page 25)*

Look for these additional symbols

EM — Identifies the products that can be integrated with the EnviroMonitor system

NIST — Identifies the stations or sensors that can be NIST traceable. See page 26 for details.

Identifies stations suitable for use with GLOBE protocol. See page 26 for details.

New WeatherLink

Access Real-Time Data Anywhere at Any Time

The new WeatherLink is here. Now accessing and sharing real-time data is easier than ever. Version 2.0 of our WeatherLink website and mobile app are more than routine updates — they're fundamental improvements. From design, to ease of use, to new features, we've elevated every aspect of the WeatherLink experience. Check it out beginning on page 15.

EnviroMonitor®

Use Real-Time, In-Field Data to Make Decisions on What Matters Most

EnviroMonitor allows you to create a network of sensors to measure what you need, where you need it. It has unmatched flexibility, allowing you to use Davis sensors along with third-party sensors. View all critical data on your smartphone and any web browser. We've dedicated six pages to this super system. Check it out beginning on page 18.

Vantage Vue®:
Perfect for the home weather-watcher

The Vantage Vue weather station 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
- Wind Speed and Direction
- Dew Point
- Rainfall

Your outdoor sensor suite sets up in minutes and transmits data wirelessly to your console anywhere in your home, school or business. In addition to displaying current weather conditions and trends, Vantage Vue also boasts the innovative Weather Center button that displays weather variables over the last 25 days. Used with WeatherLink.com and the WeatherLink Mobile App (see page 15), you'll be able to run additional analyses.

Features:

- **Easy-to-read backlit screen**
- **Glow-in-the-dark keypad**
- **Fast updates every 2.5 seconds (10x faster than the competition)**
- **Wireless transmission from station to console up to 1,000 ft. (300 m) (3x farther than the competition)**

1. TIME & DATE
View the current time and date; or time of sunrise/sunset.

2. MOON PHASE
See the eight phases of the moon.

3. FORECAST
Icons let you know to expect sun, partly cloudy, clouds, rain or snow.

4. TEMPERATURE & HUMIDITY
Console updates outside temperature every 10 seconds and inside temperature every minute. In addition, outside humidity updates every 50 seconds and inside humidity every minute.

5. RETRANSMITS
Main console can extend range to additional consoles up to 1,000 ft. (300 m).

6. BAROMETER
Five-position trend arrow shows whether barometric pressure is rising, falling or stable.

7. VARIABLE DISPLAY OPTIONS
See updated values every 10 seconds for heat index and wind chill to get a better "feel" for the outside environment.

8. RAIN
Console updates rain totals and rain rate every 20 seconds for the last 25 hours, days, and months.

9. "CHANGE IN WEATHER SINCE YESTERDAY" FEATURE
Allows comparisons of changes of temperature and barometric pressure from day to day.

10. WEATHER CENTER
Weather Center provides additional information for each weather variable, such as daily highs and lows, temperature changes by the hour and barometric value changes. Also displays astronomical data.

11. USER-FRIENDLY KEYPAD
Domed buttons are easy to feel and press. Glow-in-the-dark keypad buttons give you access to weather information at night. The "done" key returns user to "current" screen from anywhere in the program.

12. GRAPHS
Graphs the last 25 hours, days or months. View up to 50 graphs for temperature, rain, rain rate, wind and barometric pressure—all on the console.

13. "THIS TIME YESTERDAY" FEATURE
Data point on the graph indicates the weather during the same time yesterday to help compare and analyze day-to-day weather trends.

14. ALARMS
Set 22 simultaneous, different alarms to warn of dangers such as high winds, freezing temperatures, rain rate, heat index, flood warning and more.

15. WIND SPEED
See wind speed updates every 2.5 seconds. Displays wind speed in miles per hour, meters per second, kilometers per hour or knots. Provides the average and high wind speed for 2-minute and 10-minute intervals.

Multiple features included at an affordable price

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 smaller profile sensor suite is designed to minimize visual impact in your yard or on your roof. The Vantage Vue's transmitters are also radio-compatible with Vantage Pro2, so you can mix and match components. For example, add a Vantage Vue console to your Vantage Pro2 system or extend your wireless range with long and short range repeaters. They all work together seamlessly.

6250 Vantage Vue
PATENTED

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
Records wind speeds as low as 2 mph (3 km/h) and is wind tunnel-tested to 180 mph (290 km/h).

4. WEATHER-PROOF HOUSING
Corrosion-resistant cover provides durability in extreme conditions. Electronics are potted or over-molded 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). Also 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 super capacitor provides power at night. Lithium battery provides backup when needed.

10. BUILT-IN BUBBLE LEVEL
Allows for more accurate installation and better data collection.

6250 Vantage Vue

Access real-time data anywhere at any time with WeatherLink.com and the WeatherLink Mobile App.
See page 15 for details.

« *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

The 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 without using a PC. Vantage Pro2 uses frequency-hopping spread spectrum radio to transmit and receive data up to 1,000 ft. (300 m) line-of-sight. Vantage Pro2 is also an excellent choice for emergency professionals, farmers, educators, researchers, municipalities and others to monitor wind and moisture conditions, irrigation requirements and potential flooding.

Features:

- **Large, backlit 3.5" × 6" (9 × 15 cm) LCD screen**
- **Fast updates every 2.5 seconds (10x faster than the competition)**
- **Wireless transmission reception from stations or repeaters up to 1000 ft. (300 m) away**
- **UV/solar radiation and evapotranspiration updates (Included with Vantage Pro2 Plus, optional for Vantage Pro2)**

1. CURRENT & HISTORICAL DATA
View current data or highs and lows for up to 24 days, months or years.

2. FORECAST
Icons let you know what to expect: sun, partly cloudy, rain or snow. 12-hour icon forecast plus 24–48 hour ticker-tape forecast at bottom of console screen.

3. MOON PHASE
Track the eight phases of the moon.

4. TIME & DATE
View the current time and date, time of sunrise/sunset, time and date of highs/lows and time and date of a graphed data point.

5. WIRELESS
Frequency-hopping, spread spectrum radio provides three times the transmission distance of the competition, improved reception through multiple walls and greater immunity from RF interference.

6. RETRANSMITS
Main console can retransmit to additional consoles up to 1,000 ft. (300 m).

7. BAROMETER
Five-position trend arrow shows whether barometric pressure is rising, falling or steady.

8. FIXED DISPLAY
Fixed display area shows the outside temperature, humidity and barometric pressure at all times.

9. SOLAR RADIATION
Included on Vantage Pro2 Plus, view solar radiation, highs for the day, month and year as well as evapotranspiration and Temp/Hum/Sun/Wind (THSW) index. Set alarms for high readings.

10. UV
Included on Vantage Pro2 Plus, view current UV index, UV index for the day, the daily, monthly and yearly highs; or change scale to see UV in current, hourly and daily MEDs. Set alarm to warn of high UV dose/index.

11. VARIABLE DISPLAY OPTIONS
View inside or additional temperatures, humidity, soil moisture, UV index, leaf wetness, wind chill, dew point and two different heat indices. (Additional sensors or stations may be required.)

12. RAIN
Umbrella icon appears when it is currently raining. View last 24 storm totals with start and end dates. View daily, monthly or yearly rainfall and rain rate.

13. STATUS INDICATOR
Blinks to let you know that data packets are being received.

14. CONTROL KEYS
Use arrow keys to scroll through data on graph or view highs and lows over time. Plus and minus keys simplify data toggling.

15. TICKER-TAPE DISPLAY
Provides expanded forecast details as well as additional information on current conditions. Displays more than 100 different messages.

16. GRAPHS
Graphs 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.

Vertical scale changes depending on what you are graphing.

17. ALARMS
Set more than 70 alarms for multiple functions simultaneously.

18. WIND
Compass rose with 16 points shows current and dominant wind direction. Inside the compass rose, view wind direction to 1° resolution, or view wind speed.

The ultimate in versatility and options

All Vantage Pro2 stations include a console and a versatile sensor suite (pictured below) that combine our rain collector, temperature and humidity sensors and anemometer into one package. You can customize your Vantage Pro2 by adding consoles or the special-purpose options shown on the following pages. Vantage Pro2 weather stations are available in both wireless and cabled versions. Only the Vantage Pro2 Plus includes UV and solar sensors; however, both stations can be customized with a range of add-on options, such as soil moisture stations and long- and short-range repeaters.

Vantage Pro2 stations
(See page 8 for models.) PATENTED

AeroCone® rain collector

- **The new design improves rain data accuracy in high wind**
- **Comes standard on all Vantage Pro2 sensor suites**
- **Interior walls are engineered to reduce splash-out during high rain**
- **Enhanced debris screen locks into place**

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 200 mph (320 km/h).

Anemometer can be installed separately using 40 ft. (12 m) cable (included).

Optional Anemometer/ Sensor Transmitter Kit allows you to mount the anemometer in a different location than the rain collector and the rest of the sensor suite, up to 1,000 ft. (300 m) from your wireless console.

2. RAIN COLLECTOR
The Vantage Pro2 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 improved debris screen and spikes to keep birds away.

3. PASSIVE RADIATION SHIELD
The most effective passive shelter available. Protects your Temperature or Temperature/Humidity Sensor 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, which powers the motor-driven fan.

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

7. WEATHER-RESISTANT SHELTER
Provides protection against the elements for the sensor suite's electronic components.

8. SOLAR RADIATION AND UV SENSORS (SHOWN WITH VANTAGE PRO2 PLUS)
Includes sensors to track solar radiation, evapotranspiration and UV indices. Time measures are programmable to meet your specific needs. Sensors can be added separately to the Vantage Pro2.

9. OPTIONAL MOUNTING POLE
One of several installation options. For more, including our mounting tripod, see page 9.

Access real-time data anywhere at any time with WeatherLink.com and the WeatherLink Mobile App. See page 15 for details.

6152 Wireless Vantage Pro2. *Includes built-in bubble level for more accurate installation. The aluminum-plated tipping bucket in our rain collector is self-emptying, corrosion resistant and laser calibrated for exceptional accuracy.*

See page 32 for installation diagrams.

Pictured: **6163 Wireless Vantage Pro2 Plus** with 24-Hour Fan-Aspirated Radiation Shield

Choose the station that's right for you—from 7 different Vantage models

Vantage Vue

Davis accuracy in a self-contained, easy-to-install system.

Includes solar-powered transmitter.

Vantage Pro2
Shown here: 6152

Create a customized professional station with a wide range of options and sensors. Solar-powered transmitter and detachable anemometer.

Choose a cabled station for the most economical installation. Ideal for areas where lightning risk is minimal. Choose wireless for easiest installation, additional sensor options and reduced risk of lightning damage.

Vantage Pro2 Plus
Shown here: 6163

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.

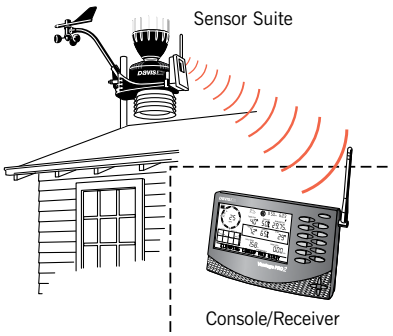
The Davis line of Vantage weather stations is built to provide a full weather system. To maximize your weather watching, a variety of additional sensors and stations are available to make your weather station even more comprehensive.	6250 **Wireless**	6152C **Cabled**	6152 **Wireless**	6153 **Wireless w/Fan**	6162C **Cabled**	6162 **Wireless**	6163 **Wireless w/Fan**
CONSOLE							
Should be run using the included AC-power adapter. Add three C batteries (not included) for backup during power outages.		●			●		
May be run full-time using three C batteries (not included). May also be run using the included AC-power adapter.	●		●	●		●	●
12-hour advance forecast icons	●	●	●	●	●	●	●
24-48 hour advance forecast ticker-tape		●	●	●	●	●	●
Weather center with scroll-through data screens	●						
SENSOR SUITE							
Anemometer, rain collector, temperature and humidity sensors	●	●	●	●	●	●	●
Detachable anemometer with 40' (12 m) cable		●	●	●	●	●	●
UV and Solar Radiation Sensors		Optional	Optional	Optional	●	●	●
DATA TRANSFER							
100' (30 m) cable		●			●		
Solar-powered wireless transmitter with battery backup	●		●	●		●	●
RADIATION SHIELD							
Standard Radiation Shield	●	●	●		●	●	
Daytime Fan-Aspirated Radiation Shield		Optional	Optional		Optional	Optional	
24-hour Fan-Aspirated Radiation Shield				●			●
ADD-ONS							
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
Wireless Temperature Station			Optional	Optional		Optional	Optional
Wireless Temperature/Humidity Station			Optional	Optional		Optional	Optional
Anemometer/Sensor Transmitter Kit			Optional	Optional		Optional	Optional

Three ways to upgrade your Vantage Pro2

1. Choose a wireless model

Benefits

- Listen to up to 8 channels of data
- Use multiple consoles with 1 station
- Move the console wherever you want



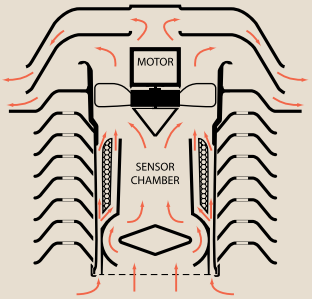
2. Choose a Plus model

Benefits

- Solar and UV sensors come pre-installed
- Console calculates ET
- See page 8 for more information

Shown here: Solar and UV sensors, and mounting shelf.

3. Choose a model with 24-Hour Fan-Aspirated Radiation Shield



Models 6153 and 6163 include our patented 24-hour fan-aspirated radiation shield for maximum accuracy of temperature and humidity 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, the solar-powered model runs on battery power and the airflow slows to 280 feet per minute (1,4 m/s). In far northern or southern latitudes, or in areas with extended periods of heavy cloud cover, there may not be enough sunlight to power the fan or recharge the battery during the winter. However, as the level of sunlight goes down, the need for fan aspiration also diminishes. The fan will start running and the battery will recharge as soon as sufficient sunlight returns.

Customize your installation

You need flexibility when deciding how to install your equipment. With that in mind, Davis provides a variety of installation options to suit your needs.

Daytime Fan-Aspirated Radiation Shield Kit

An economical solution for adding the benefits of fan aspiration by retrofitting your wireless or cabled 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. Retrofit kit for Vantage Pro2 and Vantage Pro2 Plus includes fan, solar panel, additional radiation shield plates and hardware.

7747 Daytime Fan-Aspirated Radiation Shield Kit
PATENTED

Mounting Pole Kit

Includes 2 galvanized steel poles, connector and mounting hardware. Poles measure 19.5" (0,50 m) and 21" (0,53 m) long. Assemble the 2 together to make a single 37.5" (0,95 m) long pole. Outside diameter is 1.31" (33 mm). Fits all Vantage Pro2 and Vantage Vue sensor suites.

7717 Mounting Pole Kit EM

Mounting Tripod

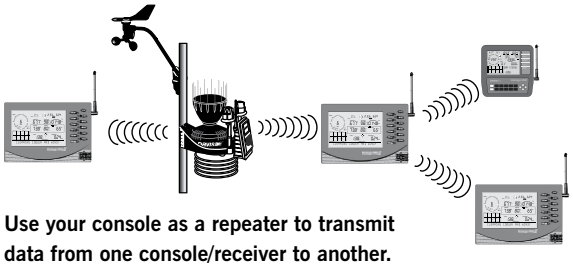
Includes two poles and galvanized steel tripod with tilting brackets on the base to mount on a roof or uneven surface, or three 18" (0,5 m) lag bolts for ground installation. Each pole measures 36.38" (0,92 m), but can be used together to make a single 69.75" (1,77 m) pole. Fits Vantage Pro2, Vantage Pro2 Plus and Vantage Vue.

7716 Mounting Tripod
7716A Mounting Tripod with lag bolts EM

Add another console and get the weather report wherever you are

Vantage Vue and Wireless Vantage Pro2 Console/Receivers

Add additional Vantage Pro2 or Vantage Vue consoles to display weather data in the den, bedroom, kitchen or even in your neighbor's house, if it's closer than 1,000 ft. (300 m). Vantage Vue transmitters are radio-compatible with Vantage Pro2 so you can mix and match components. Receive data directly from the outdoor sensors or use your console as a repeater, retransmitting the data from one console/receiver to another, extending the transmission range up to another 1,000 ft. (300 m). With Vantage Pro2 only, an additional console can receive data directly from any of our special-purpose wireless outdoor sensors (see pages 12–13 for additional details).



Use your console as a repeater to transmit data from one console/receiver to another.

6351 Vantage Vue Console/Receiver NIST

6312 Wireless Vantage Pro2 Console/Receiver NIST

Send and store data directly from outdoor sensors to your personal computer with Weather Envoy

Weather Envoy™

Receive data from a Vantage Pro2 sensor suite, a Vantage Vue sensor suite, or other transmitting station. Use with a required WeatherLink data logger to push data securely to the cloud and access for FREE on WeatherLink.com and the WeatherLink Mobile App. From there you can view, share, compare, and download data. With the WeatherLink computer software, you can collect and store data from the outdoor sensors and download it directly to your computer. (Also compatible with WeatherLinkIP.)

Like the wireless Vantage Pro2 console, the wireless Weather Envoy can listen to up to eight transmitters. However, the maximum number of each type of transmitter is limited (see table on page 32). It can also retransmit data to the console, effectively extending your station's range.

Weather Envoy includes its own barometer and inside temperature and humidity sensors. You can connect an external temperature probe (6475 or 6477) to replace a wireless Envoy's internal temperature probe (see page 24). Both the wireless and cabled versions include an AC-power adapter. Either may also be run using one of our solar power kits. The wireless model can also run on three AA batteries. Expected battery life is 4 to 6 months depending on the logging interval. Batteries should also be added to the cabled model for backup during power outages.
Requires WeatherLink (any model)

6316 Wireless Weather Envoy

6316C Cabled Weather Envoy

NIST

See page 32 for maximum transmitting stations.
See page 33 for installation diagrams.

Vantage Connect:
Bringing Even the Most Remote Weather Stations "Within Range" with Cellular Updates

Real-time weather updates delivered right to your smartphone or computer.
Vantage Connect offers a new way to connect to your weather data. Now you can get real-time weather data from remote locations that may not have reliable power, but do have good cellular reception. Vantage Connect works with both wireless and cabled sensor suites.

Vantage Connect

Vantage Connect combines the data collection capabilities of a Vantage Pro2, Vantage Vue and Weather Envoy with cellular technology and an integrated data logger to transmit your weather data to a secure page on WeatherLink.com. With your annual service plan, you get access to the Pro Feature Set on WeatherLink.com. This feature set includes a customizable Bulletin page, Charting, Data, Map, and Mobilize (see page 15). The Mobilize and WeatherLink Mobile Apps give you access to data on any smartphone. Or, download data to your PC for analysis, archiving and reporting using WeatherLink software (CD included). Vantage Connect can be configured to send you an immediate email or a text message alarm when preset weather conditions, such as high wind or frost warnings, occur.

Partner Vantage Connect with a Vantage Vue sensor suite or any Vantage Pro2 sensor suite and additional transmitting stations (see page 12). Vantage Connect can either take the place of your console or work with your console to send your weather directly to the cloud. The cabled Vantage Connect installs using the 100 ft. (30 m) cable from a cabled sensor suite. Wireless Vantage Connect has the same 1000 ft. (300 m) wireless range as our Vantage Vue and Vantage Pro2 consoles. You can connect an external temperature probe (6475 or 6477) to replace a wireless Vantage Connect's internal temperature probe (see page 24).

Vantage Connect is a self-contained, weather resistant, solar-powered unit that comes with mounting hardware, WeatherLink software and access to the entire Pro Feature Set (Bulletin page, Charting, Data, Map, and Mobilize) on WeatherLink.com (see page 15). Requires an annual service plan and one-time activation fee. (See the Annual Service Plan for details.)

Radio compatible with Vantage Pro2 and Vantage Vue transmitters and repeaters (see page 13). Solar-powered with battery backup. Computer system requirements: Windows 7 or above. iPhone and Android compatible.

6621 Vantage Connect, CDMA
6622 Vantage Connect, 2G/3G

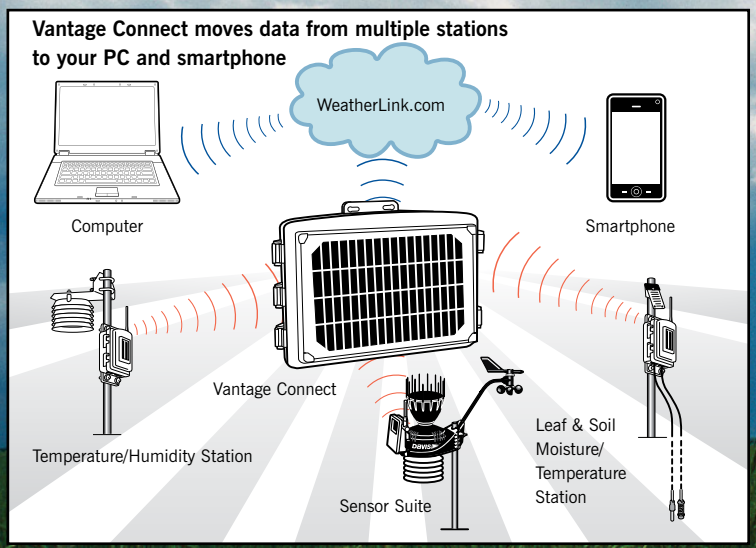
Annual Service Plan

Hardware requires a one-time activation fee. Purchase of an annual service plan is necessary. Monthly subscriber fees depend on the frequency of your update interval.

CHOOSE YOUR PLAN

Update Interval	Product Number	Annual Service Charge
5 minutes	6632	Contact Dealer
15 minutes	6634	Contact Dealer
60 minutes	6636	Contact Dealer

See www.weatherlink.com for product service plan information and availability for customers outside of the US.



Sensor Suites

Vantage Vue Sensor Suite

Because Vantage Vue's transmitters are radio-compatible with Vantage Pro2, you can mix and match components. The sensor suite can transmit to Vantage Vue and wireless Vantage Pro2 consoles, wireless Weather Envoy and Vantage Connect. Mounting pole not included.

6357 Vantage Vue Sensor Suite

Vantage Pro2 Sensor Suite

Includes all the features of the Vantage Pro2 and Pro2 Plus sensor suites shown on page 8. Compatible with Vantage Vue and Vantage Pro2 consoles, Weather Envoy and Vantage Connect. Mounting tripod pole not included.

WIRELESS SENSOR SUITE
6322 with Standard Radiation Shield
6323 with 24-Hour Fan-Aspirated Radiation Shield

CABLED SENSOR SUITE*
6322C with Standard Radiation Shield EM

WIRELESS SENSOR SUITE PLUS *with UV and Solar Radiation Sensors*
6327 with Standard Radiation Shield
6328 with 24-Hour Fan-Aspirated Radiation Shield

CABLED SENSOR SUITE PLUS *with UV and Solar Radiation Sensors**
6327C with Standard Radiation Shield EM

GroWeather® Sensor Suites FOCUS ON AGRICULTURE

6820 GroWeather Wireless with Solar Radiation Sensor and Standard Radiation Shield

6820C GroWeather Cabled with Solar Radiation Sensor and Standard Radiation Shield* EM

* Cabled sensor suites can only be used with a cabled Vantage Pro2 console, cabled Envoy, cabled Vantage Connect or EnviroMonitor, and include 100 ft. (30 m) cable.

All Vantage Vue and wireless Vantage Pro2 sensor suites can be used with Vantage Connect and wireless Weather Envoy.

All sensor suites are compatible with WeatherLink (see page 14).

Mounting tripod 7716 optional (see page 9).

Add special-purpose stations or sensors

Customize your Vantage Pro2 weather station, Vantage Connect or Weather Envoy by adding special-purpose stations and sensors. Each can receive data from up to eight different transmitting stations.

Wireless Leaf & Soil Moisture/Temperature Station (Solar-powered)

Includes a transmitter and backup battery inside a weather-resistant shelter. To view the data, add a wireless Vantage Pro2 console/receiver or Weather Envoy and WeatherLink. Vantage Pro2 console/receiver or Weather Envoy and WeatherLink can only receive data from either:

- A single fully-populated station with two Leaf Wetness Sensors, four Soil Moisture Sensors, and four Temperature Probes,
  OR
- Two partially-populated stations, one with two Leaf Wetness Sensors and two Temperature Probes, and the other with four Soil Moisture Sensors and four Temperature Probes.

Available in two models. Choose the model without sensors (6345), and add only those you need to meet your requirements. Or choose the Complete Soil Moisture/Temperature Station (6345CS), and add one or two Leaf Wetness Sensors as desired. Compatible with the 6470 Stainless Steel Temperature Probe with 2-Wire Termination.

6345 Wireless Leaf & Soil Moisture/Temperature Station *without sensors*

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

More special-purpose stations

Anemometer Transmitter Kit

With Vantage Pro2 and Weather Envoy, this solar-powered kit allows you to mount the anemometer in a different location than the sensor suite—up to 1,000 ft. (300 m) from your wireless console/receiver. For longer distances, add one or more wireless repeaters. Includes weather-resistant shelter for transmitter, solar panel, battery, and mounting hardware.

6332 Anemometer Transmitter Kit

Wireless Temperature/Humidity Station (Solar-powered)

Features a temperature and humidity sensor inside a protective radiation shield. The transmitter and lithium backup battery are protected by the weather-resistant shelter. Can be used with wireless Vantage Pro2 console/receiver, Weather Envoy and WeatherLink. Includes 20 ft. (6 m) cable and mounting hardware. Mounting pole is not included.

6382 Wireless Temperature/Humidity Station

NIST

Wireless Temperature Station (Battery-powered)

Includes stainless steel temperature probe with 25 ft. (7,6 m) cable, transmitter and battery inside weather-resistant shelter and mounting hardware. Compatible with the wireless Vantage Pro2 console/receiver, Weather Envoy and WeatherLink. Expected battery life is 6 to 9 months.

6372 Wireless Temperature Station

NIST

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 special-purpose station. 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 any Davis wireless transmitter and receiver.

Long-Range Wireless Repeaters

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. This solar-powered model includes solar panel and lithium backup battery. Antennas are sold separately.

7654 Long-Range Repeater, Solar-Powered

REPEATER DISTANCES

Antenna Combination	Multiplier	Maximum Transmission Distance under optimal conditions **		
Dipole – Dipole *	1.00	1000'	0.2 mile	300 m
Dipole – Omni	1.58	1580'	0.3 mile	475 m
Dipole – Yagi	3.16	3160'	0.6 mile	950 m
Omni – Omni	2.50	2500'	0.5 mile	750 m
Omni – Yagi	5.00	5000'	1.0 mile	1500 m
Yagi – Yagi	10.00	10,000'	1.9 miles	3000 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.

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.

Antennas for Long-Range Repeaters

For use with our long-range repeaters. 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 Repeaters

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 model includes solar panel and lithium backup battery.

7627 Standard Wireless Repeater, Solar-Powered

WeatherLink Computer Software & Data Logger

Your weather data, your computer. What could be better?

For the ultimate in weather monitoring, add WeatherLink software and data logger to any of our weather stations. The data logger fits neatly into your Vantage Pro2 or Vantage Vue console; or Weather Envoy to collect and store your weather data. Connect the data logger to your computer to push the data to WeatherLink.com or to download to the software for detailed analysis and graphing. Choose our popular WeatherLinkIP model to automatically upload to the WeatherLink.com.

Check current conditions at a glance on the instant weather bulletin.

Expanded Reporting

- **More Weather Data.** View weather information not available on the console, including heating/cooling degree days and fuel-oil demand.
- **Optional Sensor Reporting.** With optional UV and solar radiation sensors, get details on sunburn risk and solar energy.

Sharing Your Weather Data

- **Create Your Own Reports.** Data can be exported to most popular spreadsheets, databases and word processing programs.
- **Weather Website.** Create a weather website or post weather conditions to a LAN. Add graphs, text lines or scrolling ticker-tapes, and upload other files (such as webcam images) along with weather data.
- **Share Your Data with Third-Party Sites.** Submit your data to third-party sites such as Citizen Weather Observer Program (CWOP) to help develop improved weather prediction models. www.wxqa.com
- **The GLOBE Program.** Participate with other elementary through high schools in an international weather-related program. www.globe.gov

Data Storage & Transfer

- **User-Selectable Storage Interval.** Choose 1, 5, 10, 15, 30, 60 or 120 minutes. Store up to six months' worth of data depending on the storage interval.
- **WeatherLink Models with Standard Data Logger.** Log and store data, even when the data logger is not connected to your PC.
- **Internet Protocol (IP) Model.** Upload your weather data to the Internet within minutes.

WeatherLink with Standard Data Logger

These data loggers are for everyone from the home weather buff to the most demanding scientific user. Available in versions for both PC and Mac. (Mac versions do not include all features; see the "Notes" in the chart on page 22.) All models include data logger, download cable, software on CD, *Getting Started Guide* and on-line help.

WeatherLink for Vantage Pro2 and Vantage Vue
6510USB Windows USB Version
6510SER Windows Serial Version
6520 Mac® OS X Version

System Requirements

- **Windows, USB (6510USB)** Windows 7 and above
- **Internet (6555)** DSL or cable connection and router with free ethernet port. Windows 7 and above
- **Mac (6520)** Mac OS X v 10.1 or above, Intel Mac Compatible

Three ways to join the WeatherLink Cloud Family:

WeatherLinkIP

You can post your weather data directly to WeatherLink.com without a PC using WeatherLinkIP. Simply plug the data logger into the back of your Vantage Pro2 or Vantage Vue console, or Weather Envoy and connect the cable to your cable/DSL/wireless broadband router. Within minutes, you'll be able to see your weather data live on the Internet. WeatherLinkIP uploads your data automatically even when your PC is not running—in fact, a PC is not even required to upload data! Includes data logger, download cable, software on CD, *Getting Started Guide* and on-line help. **A router or hub and Internet service is required.**

6555 WeatherLinkIP

WeatherLinkIP data logger installed in a Vantage Vue console.

Standard Data Logger

WeatherLink Serial and USB Data Logger users can also make any Davis weather station (including classic Vantage Pro, Monitor, Wizard and Perception stations) into a WeatherLink.com station. With a WeatherLink.com account, your weather data is automatically uploaded to WeatherLink.com as long as your computer is on, and the software is running. **Requires a PC, WeatherLink v6.0 (upgrade for free on www.davisnet.com/support/weatherlink-for-windows-update/), and internet service. Not required for WeatherLinkIP or Vantage Connect.**

Vantage Connect

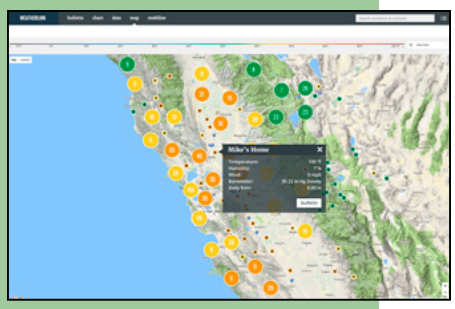
Access to the Pro Feature Set on WeatherLink.com is included with the purchase of the Vantage Connect. For more details, see page 11.

New WeatherLink

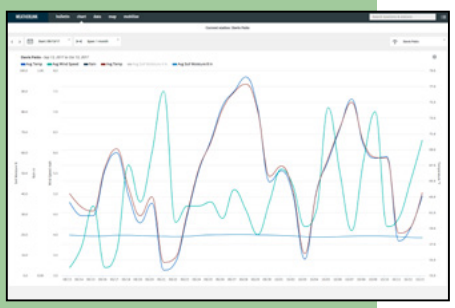
Access Real-Time Data Anywhere at Any Time

Say hello to the new WeatherLink Cloud Family. From design, to ease of use, to new features, we've elevated every aspect of the WeatherLink experience. WeatherLink.com still has all the popular features in place — charting, bulletin, raw data, mapping, and more — but now they are easier to access and customize. The all-new WeatherLink Mobile App makes it easy to access seven-day or hourly forecasts along with comparing weather data from multiple stations and sharing information with others.

See your weather data on your private page from any internet-connected computer.



Click on stations worldwide to see a summary of current conditions.



View multiple weather variables at the same time to see their relationships.

© 2017 Google

WeatherLink.com

Managing all this data is simple. Customize the bulletin layout so it works for you, sizing each window as you like and hiding what you don't need to see. Since you determine how and where each feature appears, you'll be able to track the information you prioritize at a glance. Store your data in the cloud so you can access it at any time.

New Features in 2018:

- Local Forecasts
- Wind Rose
- Moon Phases
- Sunrise/Sunset

On WeatherLink.com you can:

- Share data from your location with a global community of Davis weather station owners. To check in on another part of the world, just click any station on the map to view the bulletin from that locale.
- Automatically upload data to third-party weather sites including CWOP (Citizen Weather Observer Program), Weather Underground, and the GLOBE Program.
- Get e-mail or text alerts of current weather conditions or preset alarms.
- Access, visualize, and analyze historical data.
- Allow others to view your current weather data, or flag your page as private.

6561 WeatherLink.com Pro Feature Set

WeatherLink.coms' Pro Feature Set includes the bulletin, station map, charting, access to historical data and the ability to track views related to weather, irrigation, growth cycles and more in the Mobilize tab. Use the bulletin and station map for FREE, or tap into all that WeatherLink.com has to offer by upgrading to the Pro Feature Set.

WeatherLink Mobile App

The app has been totally redesigned, with improved layout and greater usability. An animated home screen provides an instant window on the conditions, whether that's falling snow, passing clouds, or pouring rain. And there are more fun new features. **Check out the FREE app!**

The app works with iOS and Android devices, and is available for free download. Search "Davis WeatherLink Mobile".

Download on the App Store

WeatherLink iPhone App

GET IT ON Google Play

WeatherLink Android App

Integrated Pest Management Modules

Integrated Pest Management Modules (IPM) link your weather data to actual pest risk, giving you a powerful new tool in protecting your crops from pest damage. These add-on modules generate stepped risk levels to warn you when conditions are most susceptible to pest development. IPM modules work with:

- Vantage Pro2 or Pro2 Plus Weather Station with WeatherLink for Windows
- Vantage Connect
- EnviroMonitor

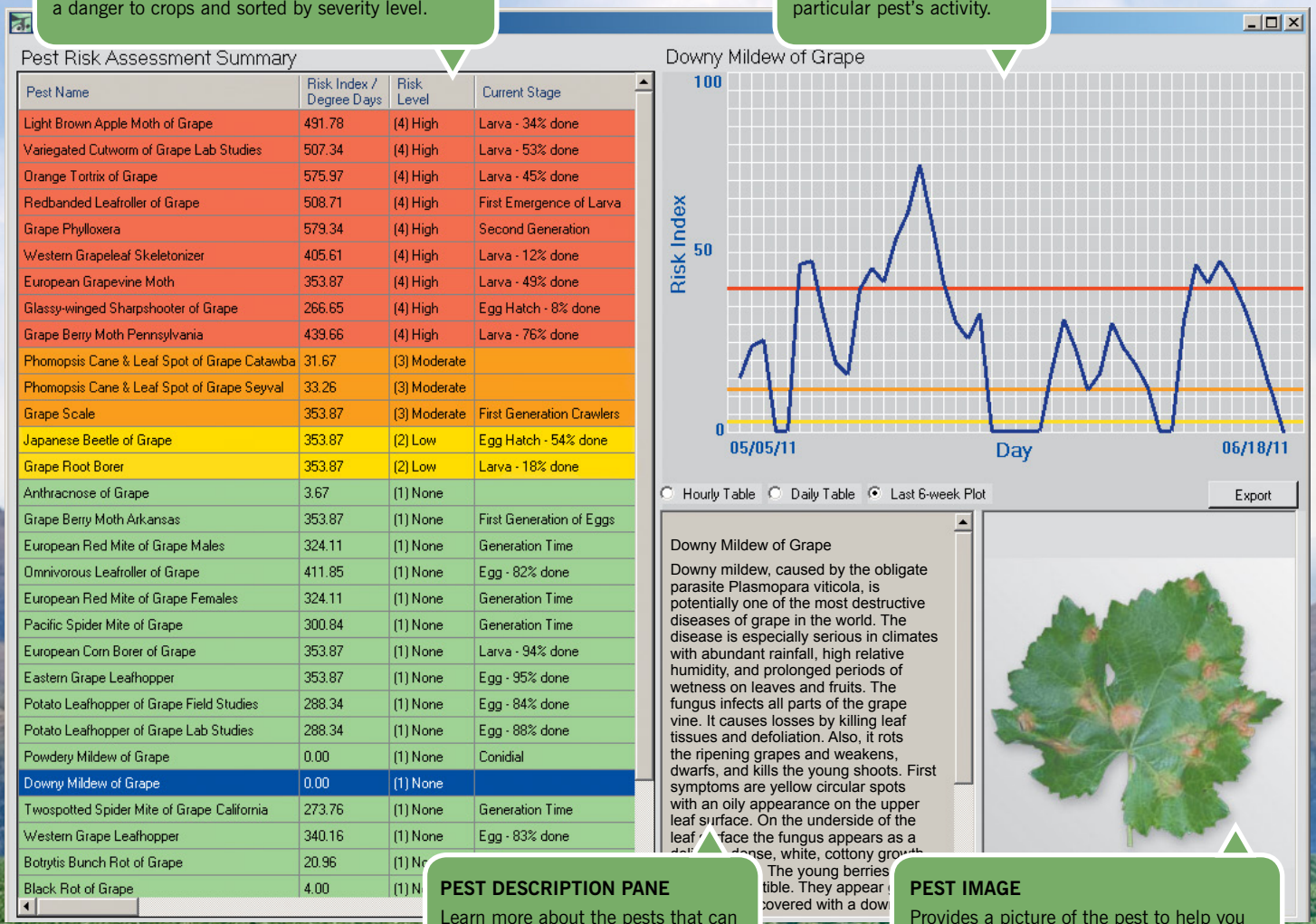
Note: Temperature sensor, humidity sensor and leaf wetness sensor are required for most pest/disease models

While each crop software comes loaded with pest models for all known pests (including diseases, insects and mites), you can completely customize your IPM software to track the pests specific to your area. That data is transformed into a color-coded spreadsheet, illustrating the highest risk potentials in red. Because you use real-time data from your own vineyard or orchard weather sensors, the software's updated pest development algorithms will provide you with the most accurate, crop-specific risk assessment available. For use with all WeatherLink models (Mac excluded).

6571 Integrated Pest Management Module for Grapes
6572 Integrated Pest Management Module for Apples & Pears
6573 Integrated Pest Management Module for Stone Fruits
6574 Integrated Pest Management Module for Nut Trees

PEST RISK ASSESSMENT SUMMARY
Color-coded to identify which pests currently pose a danger to crops and sorted by severity level.

DATA PANE
Displays last 6 weeks of a particular pest's activity.

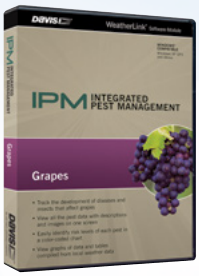


PEST DESCRIPTION PANE
Learn more about the pests that can potentially damage your crop.

PEST IMAGE
Provides a picture of the pest to help you easily identify it when you are in the field.

REQUIRES: *Vantage Pro2 or Vantage Pro2 Plus with a Wireless Leaf & Soil Moisture/Temperature Station and Leaf Wetness Sensor; and WeatherLink for Windows (any model), version 5.6 or later. Windows 7 or above. Compatible with Weather Envoy.*

IPM for Grapes



DISEASES
- Anthracnose
- Black Rot
- Botrytis Bunch Rot
- Downy Mildew
- Phomopsis Cane & Leaf Spot
- Powdery Mildew

PREDICTS 21 INSECTS AND MITES:
- Eastern Grape Leafhopper
- European Corn Borer
- European Grapevine Moth
- European Red Mite
- Glassy-winged Sharpshooter
- Grape Berry Moth
- Grape Phylloxera
- Grape Root Borer
- Grape Scale
- Japanese Beetle
- Light Brown Apple Moth
- Omnivorous Leafroller
- Orange Tortrix
- Pacific Spider Mite
- Potato Leafhopper
- Redbanded Leafroller
- Twospotted Spider Mite
- Variegated Cutworm
- Vine Mealybug
- Western Grape Leafhopper
- Western Grapeleaf Skeletonizer

IPM for Stone Fruits

DISEASES AND MODELS EMPLOYED
- American Brown Rot
- Cherry Leaf Spot
- European Brown Rot
- Peach Leaf Curl
- Powdery Mildew of Cherry
- Prune Rust
- Shot Hole of Cherry and Peach
- Phenology Model of Peach, Plum & Prune, Nectarine, Apricot and Sweet Cherry Trees

PREDICTS 18 INSECTS AND MITES:
- Codling Moth
- European Red Mite
- Fruittree Leafroller
- Green Peach Aphid
- Japanese Beetle
- Lygus Bug
- Obliquebanded Leafroller
- Omnivorous Leafroller
- Orange Tortrix
- Oriental Fruit Moth
- Pacific Spider Mite
- Peach Twig Borer
- Peachtree Borer
- Plum Curculio
- Plum Fruit Moth
- San Jose Scale
- Twospotted Spider Mite
- Western Cherry Fruit Fly

IPM for Apples & Pears

DISEASES AND MODELS EMPLOYED
- 4 Apple Scab Models (Ascospore Maturity, Modified Mills Table & Revised Mills Table, A-Scab)
- 3 Fire Blight Models (CougarBlight, Maryblyt, Billings Integrated System)
- 2 Sooty Blotch & Flyspeck Models (Brown & Sutton, Cool Climate)
- Powdery Mildew of Apple
- Brown Spot of Pear
- Cedar Apple Rust
- Black Rot of Apple (Leaf & Fruit)
- Phenology Model of Apple Tree

PREDICTS 22 INSECTS AND MITES:
- Apple Maggot
- Codling Moth
- European Red Mite
- Fruittree Leafroller
- Green Apple Aphid
- Japanese Beetle
- Light Brown Apple Moth
- Lygus Bug
- Mediterranean Fruit Fly
- Obliquebanded Leafroller
- Omnivorous Leafroller
- Orange Tortrix
- Oriental Fruit Moth
- Pacific Spider Mite
- Pandemis Leafroller
- Potato Leafhopper
- Redbanded Leafroller
- San Jose Scale
- Spotted Tentiform Leafminer
- Tufted Apple Bud Moth
- Twospotted Spider Mite
- White Apple Leafhopper

IPM for Nut Trees

DISEASES PREDICTED & MODELS EMPLOYED
- Alternaria Leaf Spot of Almond
- Anthracnose of Almond
- Panicle and Shoot Blight of Pistachio
- Pecan Scab
- Walnut Blight

INSECTS & MITES PREDICTED
- Codling Moth
- European Red Mite
- Fruittree Leafroller
- Lygus Bug
- Navel Orangeworm
- Obliquebanded Leafroller
- Oriental Fruit Moth
- Pacific Spider Mite
- Peach Twig Borer
- Peachtree Borer
- San Jose Scale
- Twospotted Spider Mite
- Walnut Husk Fly

Add-on module for WeatherLink

Agricultural/Turf Management Software Module

Optional software module adds specialized reports for farmers, growers and turf managers with user-defined growing season and 24-hour period. Software reports:

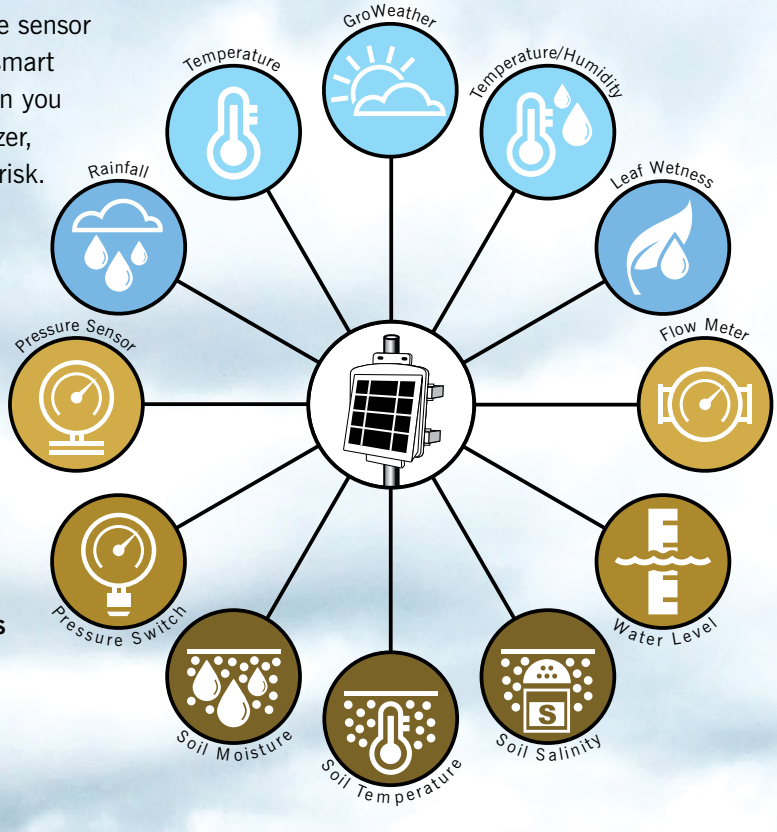
- Evapotranspiration
- Chilling requirements
- Leaf wetness and soil temperature hours
- Growing degree-days
- Temperature-humidity hours
- Crop water management (with irrigation values and user-entered K-factor profiles)

For use with all WeatherLink models (except Mac version). Some reports require the use of optional sensors (e.g. temperature probes, leaf wetness sensor, etc.). Evapotranspiration reports require data from a solar radiation sensor.

6511 Agricultural/Turf Management Module

Measure, Monitor, and

The EnviroMonitor is a simple and cost effective way to get the sensor data you want seamlessly transmitted from your fields to the smart device in your hand. Get the timely and meaningful information you need to keep crops healthy while efficiently using water, fertilizer, fungicides and pesticides. This saves you money and reduces risk.



Sensors

Multiple sensors can be installed on each Node in the EnviroMonitor system. Adding new sensors as needed is a breeze. While Davis offers many sensor options, EnviroMonitor allows you to connect several top-tier, third-party sensors as well. (See page 23 for details.)

Our ever-growing list of supported sensor types includes:

- **GroWeather® Sensor Suite**
- **Soil Moisture**
- **Soil Temperature**
- **Soil Salinity**
- **Temperature**
- **Temperature/Humidity**
- **Rainfall**
- **Leaf Wetness**
- **Pressure Switches**
- **Pressure Sensors**
- **Flow Meters**
- **Water Level**

EnviroMonitor Nodes

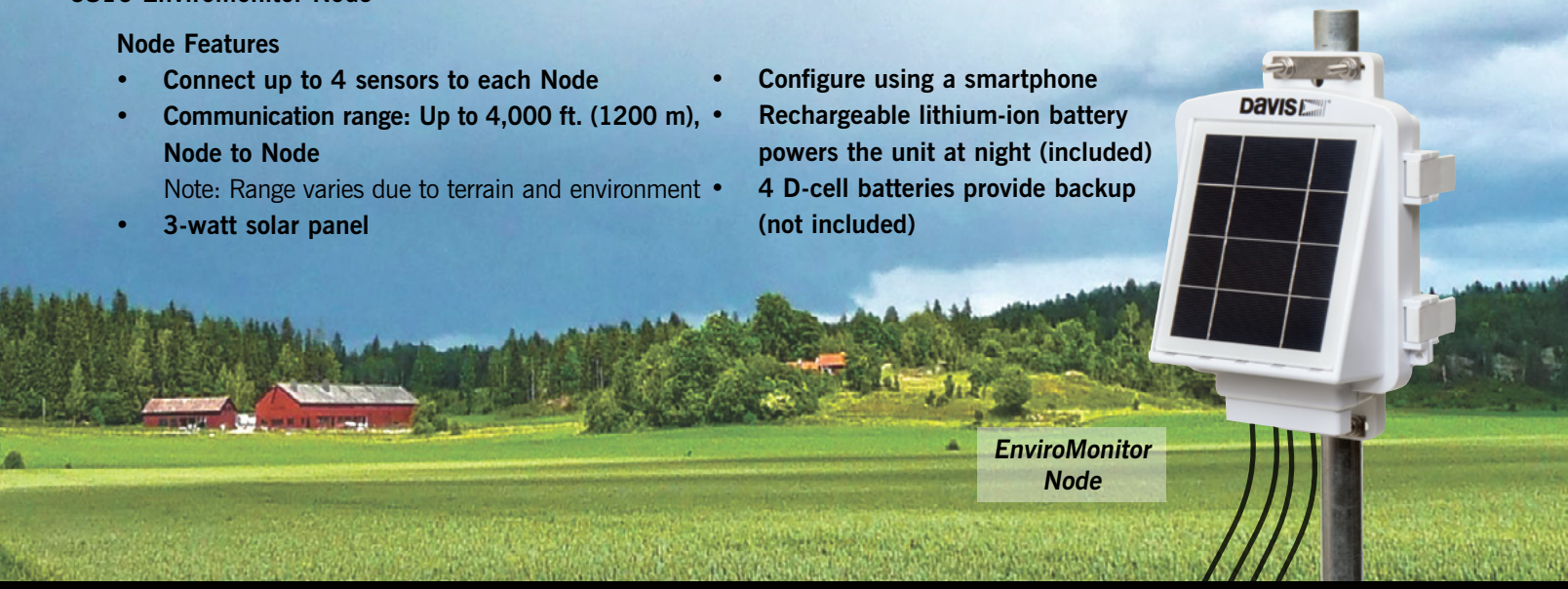
Nodes connect over a self-optimizing mesh network and transmit critical sensor data to the EnviroMonitor Gateway. Every Node is a self-contained, weather-resistant, solar-powered unit that comes with mounting hardware. Each EnviroMonitor network can host 20 or more nodes.

Nodes communicate with each other, to allow complete network flexibility around barriers and across distances.

6810 EnviroMonitor Node

Node Features

- **Connect up to 4 sensors to each Node**
- **Communication range: Up to 4,000 ft. (1200 m), Node to Node**
  Note: Range varies due to terrain and environment
- **3-watt solar panel**
- **Configure using a smartphone**
- **Rechargeable lithium-ion battery powers the unit at night (included)**
- **4 D-cell batteries provide backup (not included)**



EnviroMonitor Node

Manage In-field Data

EnviroMonitor Gateway

EnviroMonitor Gateway

The EnviroMonitor Gateway collects all essential data from the Nodes and pushes it securely to the Cloud server using cellular connectivity. From there, the data can be accessed on your smart devices and computers. The solar-powered, cellular Gateway includes a rechargeable 6-volt backup battery encased in a weather-resistant housing and it comes with mounting hardware. Requires an annual service plan and one-time activation fee. (See Annual Service Plans on page 22 for details.)

6801 EnviroMonitor Gateway

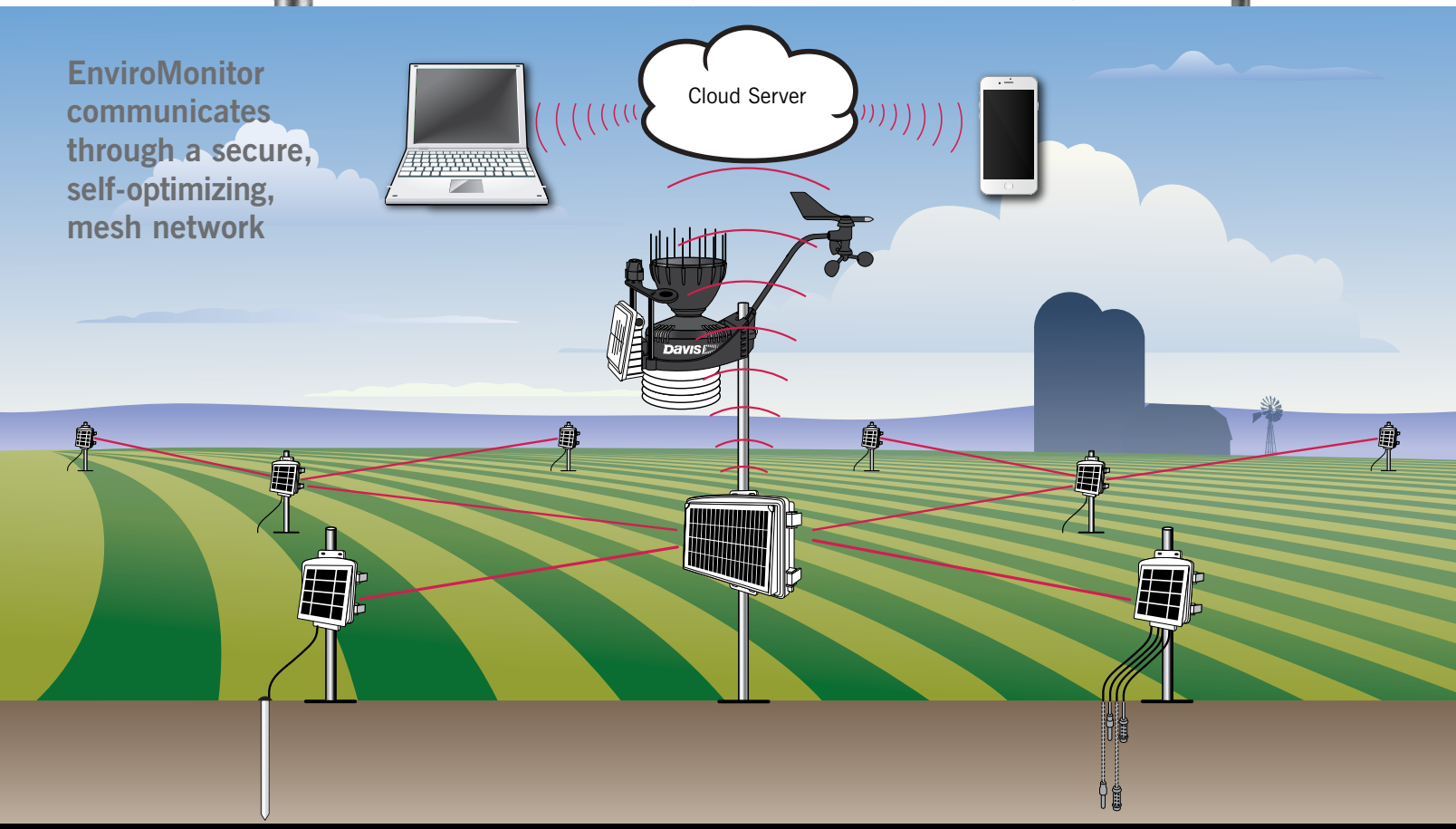
Partner the Gateway with an optional cabled sensor suite to get all the benefits of a complete weather station. These rugged sensor suites are available with solar and/or UV sensors and a variety of radiation shield options. (See sensor suite options on page 12.)

GroWeather Sensor Suite

Sensor Suites provide:

- **Temperature**
- **Humidity**
- **Dew Point**
- **Rainfall**
- **Wind Chill & Heat Index**
- **Rain Rate**
- **Wind Direction**
- **Wind Speed**
- **Evapotranspiration**
- **Solar Radiation**

Note: Barometric pressure is measured via the Gateway



EnviroMonitor: The easy-to-use, affordable, in-field monitoring system

Use real-time data to make well-informed decisions on key issues including:

- **Irrigation Management**
- **Frost Conditions**
- **Crop Management**
- **Soil Conditions**
- **Weather Events**

Information for what matters most

Smart Irrigation

Determine irrigation requirements based on:

- Soil moisture data
- Evapotranspiration (ET)
- Customized alerts
- Irrigation audits

Frost Protection

Predict frost using:

- Frost forecasting
- Real-time alerts
- Sensors in critical areas

Crop Management

Track crop development by:

- Monitoring plant growth stages through Growing Degree Days
- Leveraging 7-day forecasts
- Tracking chilling requirements

Effortless configuration

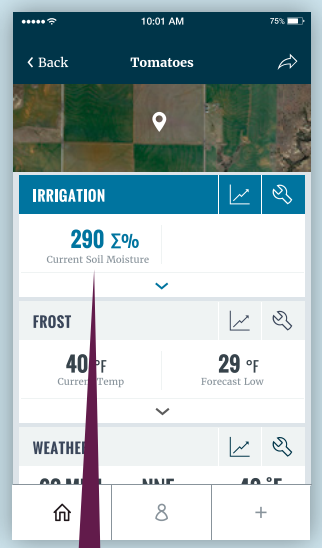
The EnviroMonitor app provides easy installation, monitoring and interaction with your EnviroMonitor hardware and sensor systems. Bluetooth® in your smartphone communicates directly with the Gateway and the Node.

Once your system is set up, you can provide access to anyone on your team, while still maintaining managerial control. You will be notified of any system issues so they can be addressed promptly to avoid losing important environmental data.

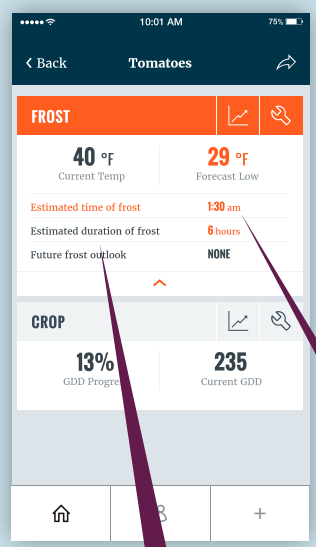
Mobilize: Critical in-field data delivered in-hand

Mobilize is an intuitive, user-friendly, decision-making app with some of the latest advancements in agronomy incorporated in its architecture. You can easily customize screen views. Quickly browse sensor data to track specific conditions based on changes in parameters related to weather, irrigation, growth cycle and more. Mobilize generates a seven-day forecast for growing degree-days and frost likelihood.

Notifications are ranked by severity so you know what needs your attention



Know the soil moisture level and know when, where and amount to irrigate



Get the critical data you need to make informed decisions

Powerful alarms and alerts

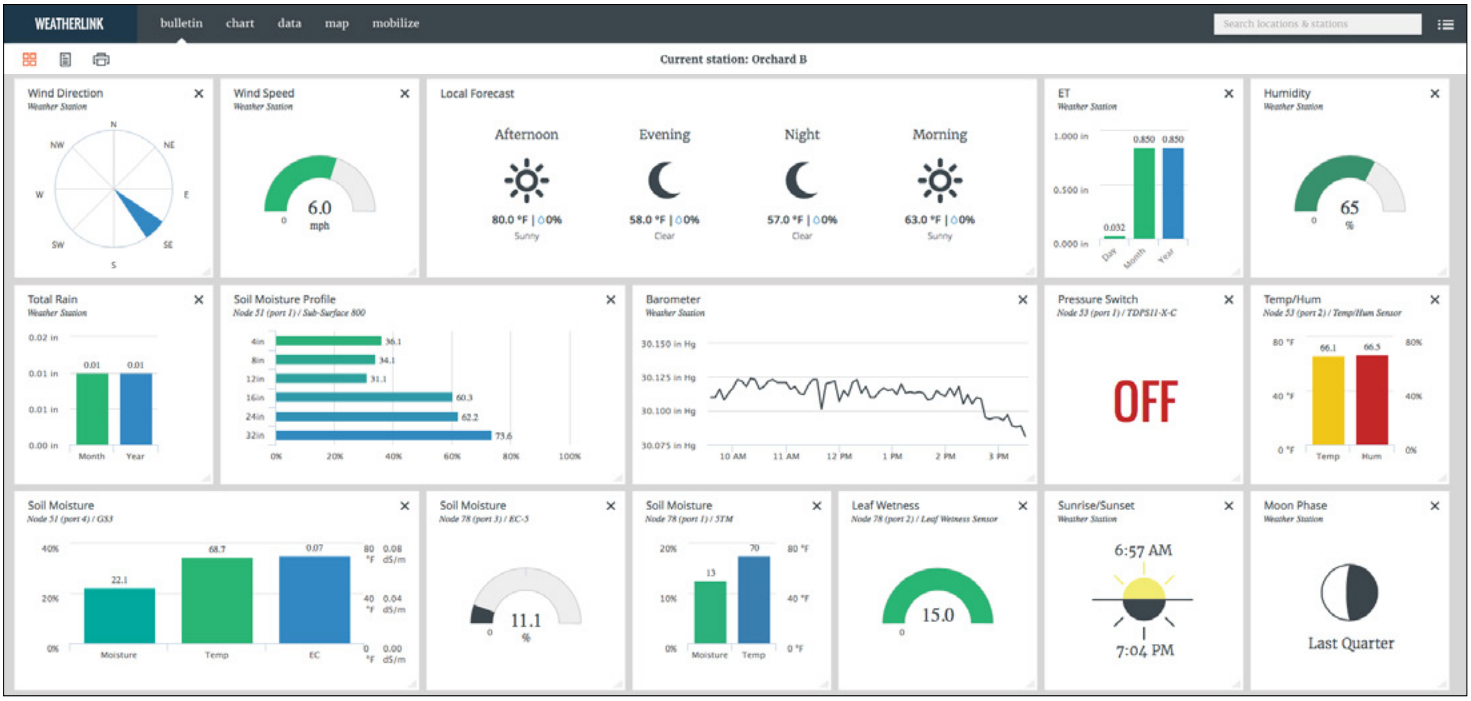
Create custom alerts based on your sensors and have them sent to people you designate.

Common alerts include:

- Frost or freezing conditions
- Soil moisture levels
- Extreme heat
- Rainfall amount
- Wind speed

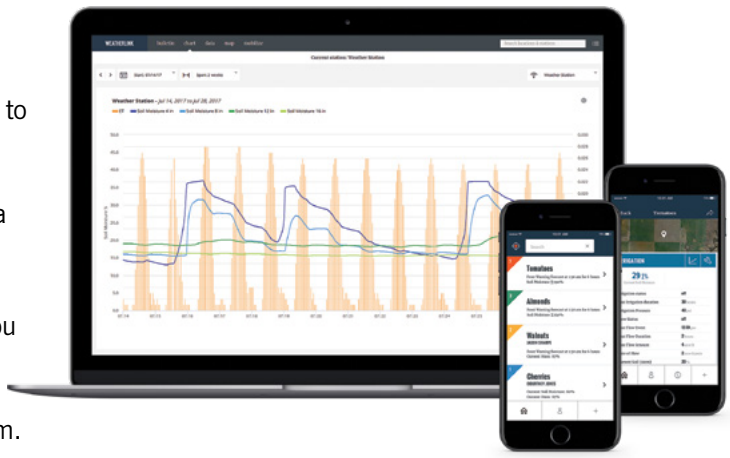
Precise forecasting allows you to stay ahead of critical conditions

Manage your site anywhere anytime.



EnviroMonitor provides key data in an easy-to-use format that works across all of your devices. The data is accessible through our FREE Mobilize app (available for iPhone® and Andriod™ devices) and via WeatherLink.com, a secure site dedicated to displaying current conditions and status of sensors. You can customize the dashboard to your personal preferences. Display the information that's important to you and hide what's not. WeatherLink.com also stores historical data. You can perform in-depth analyses by using our powerful data visualization tools to generate charts and graphs based on daily, weekly and annual time frames. You can also export the data.

Integrated Pest Management Modules (IPM) are tools that help you protect your crops from pest damage (sold separately). To learn more about our IPM modules (Grapes, Apples & Pears, Stone Fruits, Nut Trees), see pages 16-17 or visit www.davisnet.com/ipm.



Annual Service Plans

Each Gateway and each Node requires an Annual Service Plan. Annual subscriber fees depend on the frequency of your update interval. Choose one of three update intervals. A Gateway requires a one-time activation fee (#6645).

CHOOSE YOUR PLAN	Update Interval	Annual Service Charge/ Product Number Per Gateway		Annual Service Charge/ Product Number Per Node	
	5 minutes	Call	6892	Call	6882
	15 minutes	Call	6894	Call	6884
	60 minutes	Call	6896	Call	6886

System requirements: Internet connection and a major browser. iPhone® and Android™ compatible. Running WeatherLink software requires: Windows 7 and above. Not compatible with Mac. Contact us directly for annual service plan information and availability for customers outside the US.

Watch a Demo Video

Scan the QR code with your smart device

Which Davis sensors can you use with EnviroMonitor?

	Function	Model/Part Number	USA Units			Metric Units			Except for rainfall, all variables are measured in US units of measure and rounded to the nearest metric unit shown in the Resolution column.
			RESOLUTION	RANGE	ACCURACY ±	RESOLUTION**	RANGE	ACCURACY ±	
ENVIRONMENTAL MONITORING	✓ Outside Temperature	GroWeather® Sensor Suite 6820C*	0.1°F	–40° to +150°F	0.5°F	0,1°C	–40° to +65°C	0,3°C	
	✓ Outside Humidity		1%	1% to 100%	2%	1%	1% to 100%	2%	
	✓ Rainfall		0.01"	0 to 199.99"	4%	0,2 mm	0 to 6553 mm	4%	
	✓ Wind Direction		1°	0° to 360°	3°	1°	0° to 360°	3°	
	✓ Wind Speed		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%	
	✓ Solar Radiation		1 W/m2	0 to 1800 W/m2	5%	1 W/m2	0 to 1800 W/m2	5%	
	Barometric Pressure (Elevation range: -999' to +15,000'; -600 to +4570 m)	Integrated in EnviroMonitor Gateway 6801	0.01" Hg	16" to 32.5" Hg	0.03" Hg	0,1 mm Hg 0,1 mb	410 to 820 mm Hg 540 to 1100 mb or hPa	0,8 mm Hg 1,0 mb or hPa	
	Solar Radiation	6450	1 W/m2	0 to 1800 W/m2	5%	1 W/m2	0 to 1800 W/m2	5%	
TEMPERATURE/ HUMIDITY	Temperature/Humidity with Radiation Shield	6830, 6832	T: 0.1°F	–40° to +150°F	0.5°F	0,1°C	–40° to +65°C	0,3°C	
			H: 1%	1% to 100%	2%	1%	1% to 100%	2%	
	Stainless Steel Temperature Probe	6470	0.1°F	–40° to +150°F	1°F	0.1°C	–40° to +65°C	1°C	
	Temperature Probe	6477	0.1°F	–40° to +150°F	1°F	0.1°C	–40° to +65°C	1°C	
MOISTURE	Soil Moisture	6440	0.1 cb	0 to 200 cb		0.1 cb	0 to 200 cb		
	Leaf Wetness	6420	1	0 to 15	0.5	1	0 to 15	0.5	
	Rain Collector	6465	0.01"	0 to 199.99"	4%	0,2 mm	0 to 6553 mm	4%	
WIND	Wind Direction	Anemometer 6410	1°	0° to 360°	3°	1°	0° to 360°	3°	
	Wind Speed		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%	

* See additional sensor suites compatible with EnviroMonitor on page 8.

For complete specifications, visit our website at www.davisnet.com.

**Resolution refers to the number of digits or decimal places displayed on EnviroMonitor Mobilize and WeatherLink.com. All weather variables (except rainfall) are measured and accumulated in US units of measure, which are then converted to metric units for display purposes. Our rain collector measures in true 0.01" or 0,2 mm increments.

Which third-party sensors can you use with EnviroMonitor?

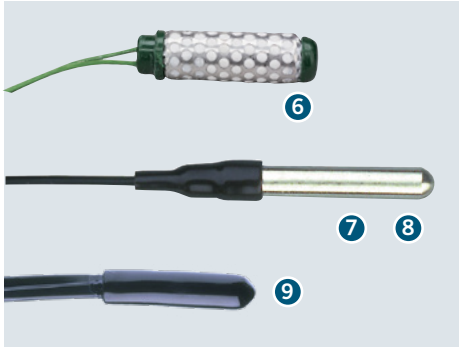
Pressure Sensor | Pressure Switch | Soil Moisture | Soil Temperature | Soil Salinity | Water Level | Flow Meter

See the entire list of supported sensors: www.davisnet.com/em-sensors

EnviroMonitor is an open sensor platform that is compatible with hundreds of industry leading third-party sensors from the manufacturers you know and trust. EnviroMonitor is compatible with SDI-12, analog voltage (i.e. 0-3V; 0-5V; 0-12V), contact closure, pulse, and I²C. We are consistently integrating new sensors to expand the capabilities of the EnviroMonitor platform and software. For the latest list of supported sensors, please visit our website at www.davisnet.com/em-sensors.

Note: Please contact us directly if a desired sensor is not on the list.

AquaCheck | Decagon Devices | Dwyer | Gems | Irrometer | McCrometer | Nason | Omega | Pronsense | Sierra | Seametrics | Sentek Technologies | ISTI | SSI Technologies, Inc. | Transducers Direct



COMPONENTS NOT SHOWN TO SCALE

1. 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. To mount next 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

2. 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. The comb structure provides improved cosine response accuracy at zenith angles up to 90 degrees. To mount next 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
PATENT PENDING

3. 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 Integrated Sensor Suite.

6673 Sensor Mounting Shelf

4. NEW Universal Mounting Bracket

For mounting a solar radiation sensor, a UV sensor, or a radiation shield. Bracket is pre-drilled for easy mounting. Includes mounting hardware.

6670 Universal Mounting Bracket

5. Leaf Wetness Sensor*

Use to monitor the level of surface moisture on foliage, with range 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. 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, then 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

7. 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

8. 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 and Anemometer/Sensor Transmitter Kit. Includes 25 ft. (7,6 m) cable.

6475 Stainless Steel Temperature Probe with RJ Connector

9. Temperature Probe with RJ Connector*

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

6477 Temperature Probe with RJ Connector

10. 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 in excess of 200 miles per hour. Sealed stainless steel ball bearings for long life. Comes complete with mounting hardware. Includes 40 ft. (12 m) cable.

6410 Anemometer

11. AeroCone® Rain Collector

Designed to meet the guidelines of the World Meteorological Organization, our self-emptying rain collector is exceptionally accurate. Measures in 0.01" or 0,2 mm increments. Uses base for easy mounting to flat surfaces. Includes mounting hardware and 40 ft. (12 m) cable, bird spikes and debris screen.

6463 Rain Collector

12. AeroCone® Rain Collector with Mountable Base

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.

6465 Rain Collector with Mountable Base

13. Turbo Meter™

Reads wind speed in mph, knots, fpm or m/s. Turbine suspended on sapphire jewel bearings responds to the lightest of winds. 3-digit display offers excellent viewing contrast both in bright sunlight and at night. Requires 3 AAA alkaline batteries (not included). 3 oz (85 g) not including batteries.

271 Turbo Meter

See page 12 for our line of sensor suites.

See page 33 for extension cables and maximum cable lengths.

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

14. Temperature/Humidity Sensor with Radiation Shield*

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

6830 Temperature/Humidity Sensor with Radiation Shield NIST EM

15. RJ Connector Node Adaptor

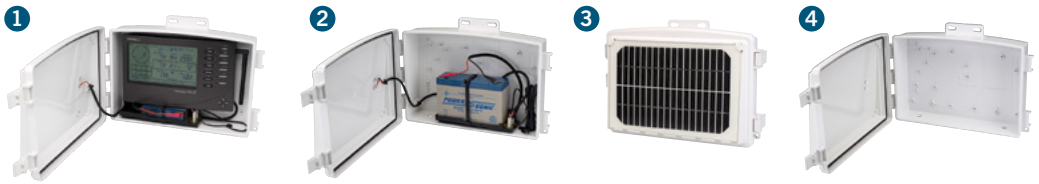
Connect sensors with RJ connectors to your EnviroMonitor Node with this adaptor.

6860 RJ Connector Node Adaptor EM

16. 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 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 NIST EM



1. Solar Power Kit

Large solar panel powers a wireless console or Weather Envoy inside a weather resistant shelter. (Outdoor sensors are powered by the solar panel on the sensor suite). Includes 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 consoles 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), Vantage Connect, 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 EM

4. Universal Shelter

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

6618 Universal Shelter

5. NEW Shelter Angle Bracket

Changes solar panel's angle from 5 degrees to 30 degrees. Increases solar panel's efficiency at lower latitudes. Includes mounting hardware.

6671 Shelter Angle Bracket EM

6. A/C Charger Kit

Charges the battery in a Vantage Connect or EnviroMonitor Gateway where sunlight is too low to use solar. Includes 5.5 ft. (1,6 m) cable.

6710 A/C Charger Kit EM

7. Rain Collector Heater

For older sensor suites that do not have the new 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-power adapter and 50 ft. (15 m) cable.

7720 Rain Collector Heater (no rain collector)

7 & 7a. Rain Collector and Heater

For sensor suites with an AeroCone, the old style rain collector shown above will have to be installed to use the Rain Collector 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. Radiation Shield

Received 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 Wireless Temperature Station or Leaf & Soil Moisture/Temperature Station and all temperature sensors.

7714 Radiation Shield Assembly required.

9. USB Power Cord

Power the Vantage Vue console, Vantage Pro2 console or the Weather Envoy. Includes 9.5 ft. (2,9 m) cable.

6627 USB Power Cord

See www.davisnet.com/weather/uses to view various ways to use these kits and shelter.

How Will You Use Your Weather Station?

The Weather Buff

He loves to watch the weather and over the years has installed more than one drugstore thermometer on his patio. He wanted a high quality weather station that could give him accurate readings on wind, temperature, humidity, barometer and rain; all displayed clearly on a console—while staying within his budget. He was impressed with how simple Vantage Vue was to install and with all the information it provided on the console—historical data, forecast icons, and graphs—and the Weather Center's extra information. He added WeatherLinkIP and learned how simple it was to upload his data to the Internet.

- Affordable
- Easy to install
- Add WeatherLinkIP for simple online sharing
- Can download data from WeatherLinkIP for NOAA and CWOP reporting

THE BUFF'S SYSTEM
Vantage Vue, 6250
Mounting Pole Kit, 7717
WeatherLinkIP, 6555
ON HIS WISH LIST
Additional console for the garage, 6351
PRICE AS SHOWN: Contact dealer

The Professional Weather Watcher

He is serious about his weather. He wants data he can to report to NOAA and CWOP. He chose the Vantage Pro2 with 24-hour Fan-Aspirated Radiation Shield so he could mount the anemometer on a 30-foot (9 m) tower while keeping his rain and other sensors at six feet (two meters). He added WeatherLinkIP so he can help his community prepare for severe weather via his website and his ham radio. An added Vantage Vue console lets him see his data in the living room as well as in his radio shack. He monitors his backyard pond temperature with a wireless Temperature/Humidity Station and a standard wireless repeater.

- Separable sensors for greatest wind accuracy and professional siting
- Ability to add special-purpose stations

THE PRO'S SYSTEM
Vantage Pro2 with 24-Hour Fan-Aspirated Shield, 6153
Mounting Tripod, 7716
Mounting Pole Kit, 7717
WeatherLinkIP, 6555
Wireless Temperature Station, 6372
Standard Wireless Repeater, solar powered, 7627
Vantage Vue console, 6351
ON HIS WISH LIST
Solar and UV Radiation Sensors with shelf, 6450, 6490, & 6673
PRICE AS SHOWN: Contact dealer

The Boutique Vintner

She found the perfect vineyard on a rolling hillside and sank her savings into the dream of raising grapes and producing award-winning wines. She needed real-time data from her vineyard's micro-climate, which happens to be miles from her office. She chose a Vantage Pro2 Plus Integrated Sensor Suite and installed Vantage Connect to bring that remote station's data right into the office via a cellular connection. With Integrated Pest Management for Grapes and a wireless Leaf and Soil Moisture/Temperature Station, she has all the data she need to make the daily weather-based decisions that determine the success—or failure—of her crop.

- Full agricultural functionality
- Real-time data communicated via cellular connection from a remote station
- UV and solar sensors provide ET data for use in irrigation

THE VINTNER'S SYSTEM
Vantage Connect 2G/3G, 6622
Vantage Pro2 Plus with 24-Hour Fan-Aspirated Radiation Shield ISS, 6328
Wireless Leaf & Soil Moisture/Temperature Station, 6345
Leaf Wetness Sensor, 6420
Soil Moisture Sensor, 6440
Stainless Steel Temperature Probe with 2-Wire Termination, 6470
Integrated Pest Management Module for Grapes, 6571 and WeatherLink, 6510USB
Vantage Connect Service Plan with 15-minute update interval, 6634 One-time activation fee
Mounting tripod, 7716
ON THEIR WISH LIST
Wireless Temperature Station for the cellar
PRICE AS SHOWN: Contact dealer

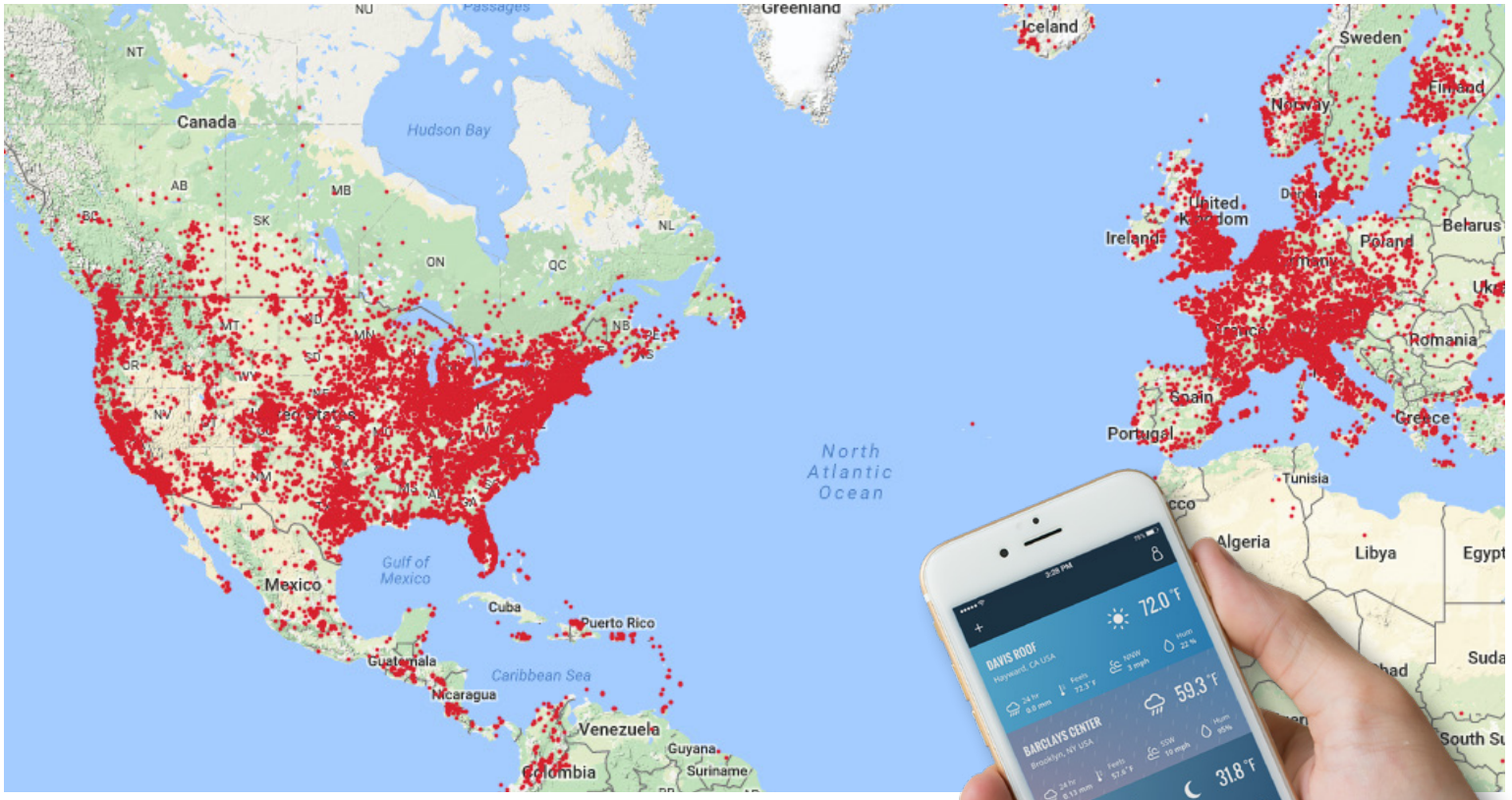
The Professional Grower

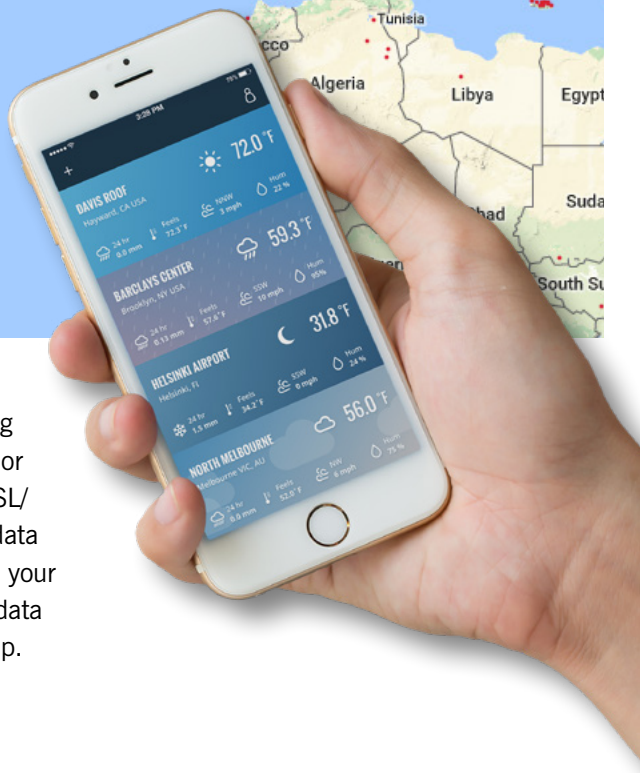
He's part of a farming dynasty: his dad and grandad farmed before him and he learned from them that you can never know too much about what is happening out in those fields. EnviroMonitor gives him the data he needs, when he needs it, to proactively avoid crop damage from frost and high winds, from over or under irrigating, from pests. No corner of his land is too remote for EnviroMonitor's powerful, self-healing mesh coverage. Cellular data communication puts his data at his fingertips 24/7, available on his smartphone or computer wherever he is. Now he has real-time data in his armory of yield-boosting, risk-minimizing, cost-saving tools.

- Gateway uploads to WeatherLink via cellular connectivity
- Nodes communicate via a mesh network
- Use Davis and many third-party sensors
- Easily configure alerts

THE GROWER'S SYSTEM
EnviroMonitor Gateway, 6801
GroWeather sensor suite with solar radiation sensor, standard radiation shield, 6820C
EnviroMonitor Nodes (4), 6810
Mounting tripod, 7716
EnviroMonitor Gateway service plan with 15-minute update interval, 6894 One-time activation fee
EnviroMonitor Node service plans with 15-minute update interval, 6884
ON THEIR WISH LIST
A really good growing season
PRICE AS SHOWN: Contact dealer

Join the World-Wide Network of Davis Weather Stations





WeatherLinkIP

You can post your weather data directly to WeatherLink.com without a PC using WeatherLinkIP. Simply plug the data logger into the back of your Vantage Pro2 or Vantage Vue console, or Weather Envoy and connect the cable to your cable/DSL/wireless broadband router. Within minutes, you'll be able to see your weather data live on the Internet. WeatherLinkIP uploads your data automatically even when your PC is not running—in fact, a PC is not even required to upload data! Includes data logger, download cable, software on CD, *Getting Started Guide* and on-line help. **A router or hub and internet service is required. Find more information on WeatherLinkIP and additional ways to join WeatherLink.com on page 14.**

Meteo captured Vantage Vue at sunset in Calolziocorte, Italy.

Mário shared an image of his Vantage Pro2 high on a rooftop in Portugal.

Heiko in the Netherlands installed a Vantage Pro2 on his environmentally friendly house.

Vantage Console Features

● Vantage Pro2 and Vantage Vue
● Vantage Pro2 only
● Vantage Vue only

	BAR	HUMIDITY			RAIN			TEMPERATURE				WIND			WITH OPTIONAL SENSORS								
	Barometric Pressure	Inside Humidity	Outside Humidity	Dew Point	Rainfall Amount	Rain Storm Amount	Rain Rate	Inside Temperature	Outside Temperature	Heat Index	Wind Chill	Wind Speed	Wind Direction	Direction of High Speed	Evapotranspiration	Humidity (Extra)	Leaf Wetness	Soil Moisture	Solar Radiation	Temperature (Extra)	Temp-Hum-Sun-Wind	UV Radiation	UV MEDs
Update Interval*	1 min	1 min	50 sec	10 sec	20 sec	20 sec	20 sec	1 min	10 sec	10 sec	10 sec	2.5 sec	2.5 sec	2.5 sec	1 hour	50 sec	1 min	80 sec	50 sec	10 sec	10 sec	50 sec	50 sec
CONSOLE DISPLAYS																							
Reading at end of update interval	●	●	●	●				●	●	●	●		●			●	●	●	●	●	●	●	●	
Total amount for the interval					●	●									●								●
Average reading for the interval												●											
High reading for the interval							●																
SET ALARMS for																							
Special Alarms	1				2	3						4			5								6
High Reading		●	●	●			●	●	●	●		●				●	●	●	●	●	●	●	
Low Reading		●	●	●				●	●		●					●	●	●		●			
DISPLAYED but not graphed																							
Current Year High	●	●	●	●				●		●		●		●		●	●	●		●			
Current Year Low	●	●	●	●				●			●					●	●	●		●			
GRAPHED & DISPLAYED for last 24 hrs of each of the following (25 hrs for Vantage Vue)																							
EOP: End-of-15-Minute Period Readings	●																						
EOP: End-of-Hour Period Readings	●	●	●	●				●	●	●							●	●			●		
TOTALS: 15-minute Period Totals					●																		
TOTALS: Hourly Totals					●										●								●
TOTALS: Daily Totals					●										●								●
TOTALS: Monthly Totals					●										●								
TOTALS: Storm Totals (with start & end date)						●																	
TOTALS: Yearly Totals					●										●								
AVERAGES: 10-Minute Averages (2 min. for VV)												●											
AVERAGES: Hourly Averages or Dominant												●	●						●			●	
AVERAGES: Daily Averages or Dominant													●	●									
AVERAGES: Monthly Averages or Dominant													●	●									
AVERAGES: Yearly Averages														●									
HIGHS: One-Minute Highs							●																
HIGHS: Hourly Highs							●					●											
HIGHS: Daily Highs	●	●	●	●			●	●	●	●		●					●	●	●		●	●	
HIGHS: Monthly Highs	●	●	●	●			●	●	●	●		●					●	●	●		●	●	
HIGHS: Yearly Highs							●		●			●											
LOWS: Hourly Lows											●												
LOWS: Daily Lows	●	●	●	●				●	●		●						●	●					
LOWS: Monthly Lows	●	●	●	●				●	●		●							●					
LOWS: Yearly Low									●														

*Update interval may vary depending on station ID and type of station.

SPECIAL ALARMS

1 **Storm Warning:** Amount of barometric pressure fall.
Storm Clearing: Amount of barometric pressure rise.
2 **Flash Flood Warning:** 15-minute rainfall amount.
24-hour Rain Alarm: 24-hour rainfall amount.
3 **Rainstorm Alarm:** Rainfall amount for current storm.
4 **High Wind Speed and 10-Minute Average Wind Speed Alarms**
5 **Daily Evapotranspiration Amount Alarm**
6 **Daily UV Dose Alarm**

The GLOBE Program
Students of all ages can now participate in the worldwide GLOBE program using protocols developed just for Davis weather stations.
See www.globe.gov for details.

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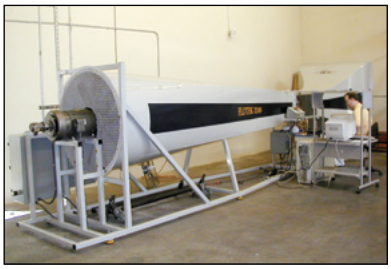
NIST-Traceable Sensors
In the USA, the National Institute of Standards & Technology (NIST) develops and maintains the standards of measurement to which all others are ultimately traced. Numerous calibrations, tests and measurement assurance programs are delivered directly to approximately 10,000 companies. 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.



Anemometers are wind-tunnel tested in our California factory.

Function		Vantage Vue	Vantage Pro2	USA Units			Metric Units			Except for rainfall, all variables are measured in US units of measure and rounded to the nearest metric unit shown in the Resolution column.
				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		0,1 Degree-Day	Unlimited		
	Cooling/Heating Degree-Days	✔	❍	0.1 Degree-Day	Unlimited		0,1 Degree-Day	Unlimited		
	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	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%	3%	1%	1% to 100%	3%	
	Outside Humidity VUE	✔		1%	1% to 100%	3%	1%	1% to 100%	3%	
	Outside Humidity VP2 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	3°F	0,1°C	–50° to +60°C	1,5°C	
	Outside Dew Point VUE	✔		1°F	–105° to +130°F	3°F	1°C	–76° to +54°C	1,5°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"	4%	0,2 mm	0 to 6553 mm	4%	
	Rate of Rainfall		✔	0.01"/hr	0 to 96"/hr	5% ≤ 5"/hr	0,1 mm/hr	0 to 2438 mm/hr	5% ≤ 127 mm/hr	
		✔			0 to 40"/hr			0 to 1016 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	1°F	0,1°C	0° to +60°C	0,5°C	
	Outside Temperature VUE	✔		0.1°F	–40° to +150°F	1°F	0,1°C	–40° to +65°C	0,5°C	
	Outside Temperature VP2 Sensor Suite		✔	0.1°F	–40° to +150°F	0.5°F	0,1°C	–40° to +65°C	0,3°C	
	Outside Temp (T/H Sensors)		✔	0.1°F	–40° to +150°F	0.5°F	0,1°C	–40° to +65°C	0,3°C	
	Outside Temp (VP2 Temp or T/H Stations)		●	0.1°F	–40° to +150°F	0.5°F	0,1°C	–40° to +65°C	0,3°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	+30°F to +165°F	3°F	0,1°C	–1°C to +74°C	1,5°C	
	Outside Heat Index VUE	✔		1°F	–40° to +165°F	3°F	1°C	–40° to +74°C	1,5°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	4°F	0,1°C	–79° to +74°C	2°C	
	Temp/Hum/Wind Index VP2 Sensor Suite		❍	0.1°F	–110° to +165°F	3°F	0,1°C	–79° to +74°C	1,5°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	
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	✔	✔	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%	
	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%	

✔ Included
● Optional sensor required, but shown on console
❍ Optional and requires WeatherLink.
Growing degree-days also requires Ag/Turf Management Module. 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.davisnet.com/resources/weather-monitoring/#support then click on Specification Sheets.

Which sensors can you use with your transmitter?

See page 32 for the maximum number of transmitters that can report to a single Vantage Pro2 console/receiver or Weather Envoy.

● Included
● Optional
4 Maximum sensors for that transmitter

		Product No.	WIRELESS TRANSMITTERS: 6250 Vantage Vue 6357 Vantage Vue Sensor Suite	6152 Vantage Pro2 6322 Vantage Pro2 Sensor Suite	6153 Vantage Pro2 with Fan-Aspirated Rad Shield 6323 Vantage Pro2 Sensor Suite with Fan-Aspirated Rad Shield	6162 Vantage Pro2 Plus 6327 Vantage Pro2 Plus Sensor Suite	6163 Vantage Pro2 Plus with Fan-Aspirated Rad Shield 6328 Vantage Pro2 Plus Sensor Suite with Fan-Aspirated Rad Shield	6820 GroWeather Sensor Suite with Solar Radiation Sensor and Passive Radiation Shield	6345 Leaf Wetness & Soil Moisture/Temp Station w/o sensors	6345CS Complete Soil Moisture/Temp Station	6372 Temperature Station	6382 Temperature/Humidity Station	6332 Anemometer/Sensor Transmitter Kit
Sensor Options and Accessories	Integrated Rain Collector	--	●	●	●	●	●	●					
	Rain Collector	7852											●
	Integrated Anemometer	--	●										
	Detachable Anemometer	6410		●	●	●	●	●					●
	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											●
	Passive Radiation Shield	7714	●	●		●		●	●	●	●	●	●
	Daytime Fan-Aspirated Radiation Shield	7747		●		●		●				●	
	24-Hour Fan-Aspirated Radiation Shield	--			●		●						
	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			

*Can also be used with Weather Envoy and Vantage Connect to replace the internal temperature sensor.

Current Draw & Battery Life*		Current Draw in Milliamperes: Lights Off	Lights On	With Data Logger: Standard†	With Data Logger: WeatherLinkIP	Estimated Backup Battery Life in Days*: Without Data Logger	With Data Logger: Standard†	With Data Logger: WeatherLinkIP
Vantage Vue Console/Receiver		1	160	1	101	9 months	9 months	2 days
Vantage Pro2	Wireless	1	160	1	101	9 months	9 months	2 days
	Cabled	10	170	10	110	27 days	27 days	2 days
Weather Envoy	Wireless	1	N/A	1	101	N/A	4 months	<1 day
	Cabled	10	N/A	10	110	N/A	10 days	<1 day

*Information based on premium alkaline batteries. Actual battery life will vary depending on station setup and usage. N/A = not applicable.
†6510USB data logger, 6510SER data logger, 6520 Mac data logger

Which transmitters can you use with your receiver?

See pages 32 for the maximum number of transmitters that can report to a single Vantage Pro2 console/ receiver or Weather Envoy.

Included

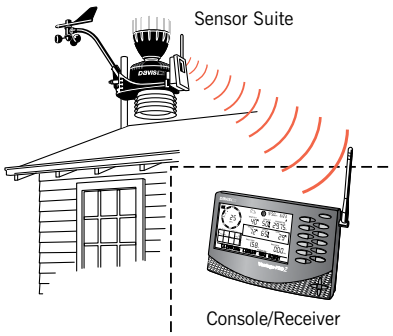
Optional

Included but additional can be added

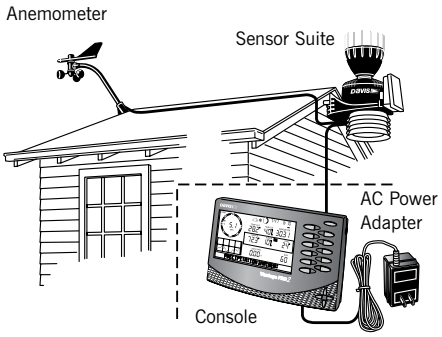
		Product No.	6250 Vantage Vue	6152 Vantage Pro2	6153 Vantage Pro2 with Fan-Aspirated Rad Shield	6162 Vantage Pro2 Plus	6163 Vantage Pro2 Plus with Fan-Aspirated Rad Shield	6316 Wireless Weather Envoy	6620, 6621 or 6622 Vantage Connect	6351 Vantage Vue Console only	6312 Vantage Pro2 Console only	6152C Vantage Pro2	6162C Vantage Pro2 Plus	6316C Cabled Weather Envoy	6620C, 6621C or 6622C Cabled Vantage Connect
			SYSTEMS & RECEIVERS												
			WIRELESS									CABLED			
Wireless Options	Vantage Vue Console	6351	◐	●	●	●	●	●		○	●				
	Vantage Vue Sensor Suite	6357	○					●	●	●	●				
	Wireless Vantage Pro2 Console	6312	●	◐	◐	◐	◐	◐		●	○				
	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 Weather Envoy	6316	●	●	●	●	●	○		●	●				
	Wireless Leaf & Soil Moisture/Temperature Stations	6345		●	●	●	●	●	●		●				
	Complete Soil Moisture/Temperature Station	6345CS		●	●	●	●	●	●		●				
	Wireless Temperature Station	6372		●	●	●	●	●	●		●				
	Wireless Temperature/Humidity Station	6382		●	●	●	●	●	●		●				
	Anemometer/Sensor Transmitter Kit	6332		●*	●*	●*	●*	●*	●	●	●				
	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 Vantage Pro2 Console	6312C										○	○		
	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	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		●	●	○	○					●			

* Only when used as a separate transmitter for your station's anemometer.
** Can also be used on wireless stations when more power is needed.
*** Can be paired with 6612 and 6614.

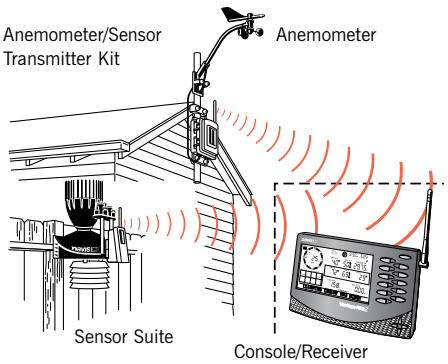
WIRELESS VANTAGE PRO2



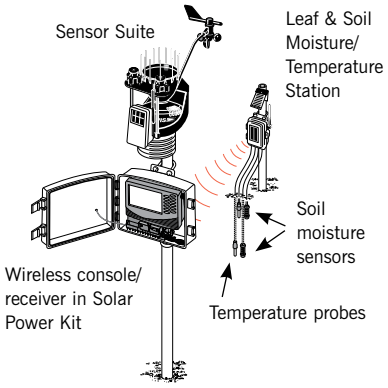
REMOTE ANEMOMETER (CABLED SYSTEM)

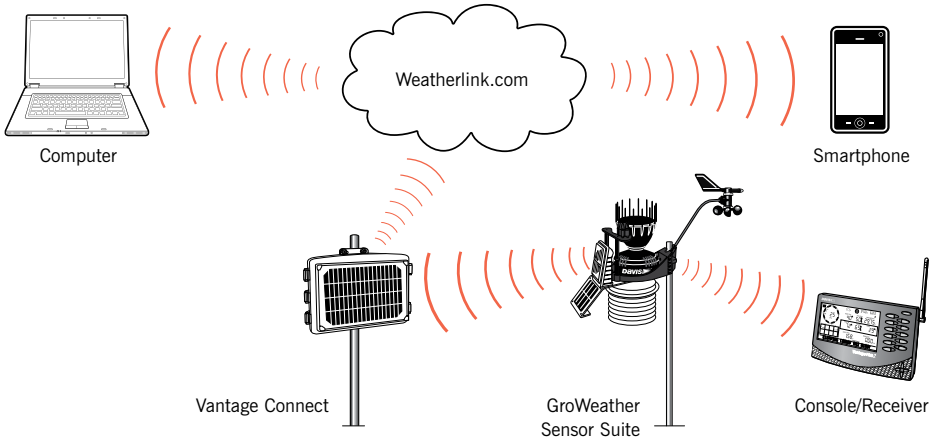


ANEMOMETER/SENSOR TRANSMITTER KIT

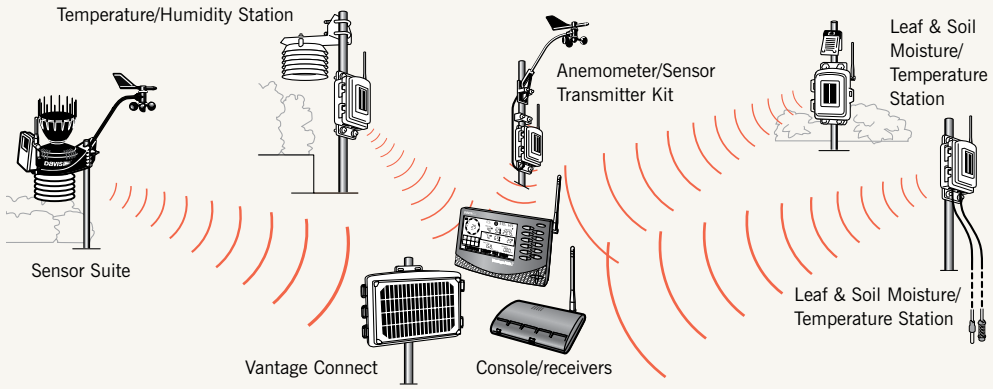


FIELD STATION SHOWING SOLAR POWER KIT & SOIL MOISTURE SENSORS





MAXIMUM NUMBER OF EACH TRANSMITTING STATION TYPE REPORTING TO CONSOLE/RECEIVERS (COMBINED TOTAL CANNOT EXCEED 8)						
Transmitting Station	**Vantage Pro2**		**Vantage Vue**		**Weather Envoy**	**Vantage Connect**
	Shown	**Logged**	**Shown**	**Logged**	**Logged**	**Logged**
Sensor Suite	1	1	1	1	1	1
Anemometer/Sensor Transmitter Kit	1 †	1 †	1 †	1 †	1 †	1 †
Leaf & Soil Moisture/Temperature Station	2 *	2 *	0	0	2 *	2 *
Temperature Station	8	3 **	0	0	3 **	3 **
Temperature/Humidity Station	8	2 **	0	0	2 **	2 **



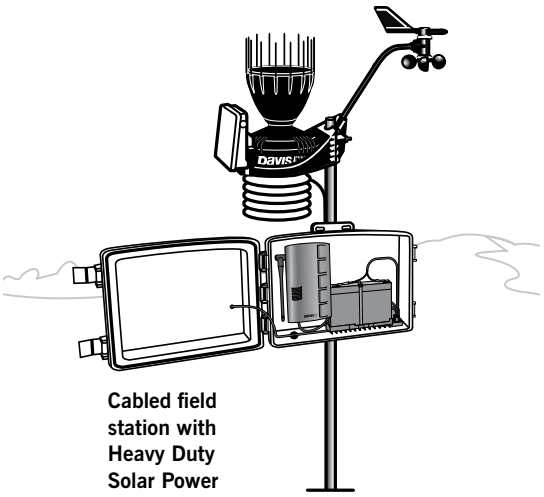
Each Vantage Pro2, Weather Envoy and Vantage Connect console/receiver can receive data from up to eight different transmitting stations.

* One fully-populated station or two partially-populated stations.

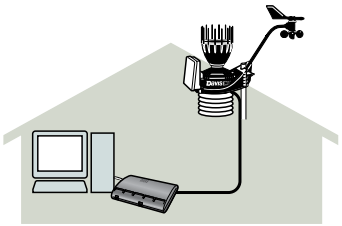
** WeatherLink will log a maximum of:
A) three Temperature Stations or
B) two Temperature Stations and one Temperature/Humidity Station or
C) one Temperature Station and two Temperature/Humidity Stations.

† System can only listen to one anemometer at a time. If an anemometer is used with your Sensor Suite, then the anemometer on the anemometer/sensor transmitter kit will not register.

Cabled Weather Envoy



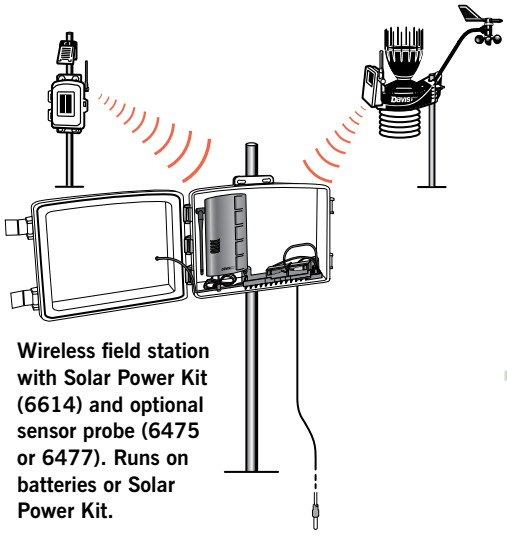
Cabled field station with Heavy Duty Solar Power Kit (6612).



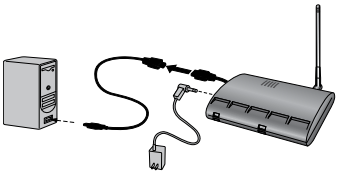
Can be used with one cabled Sensor Suite

Wireless Weather Envoy

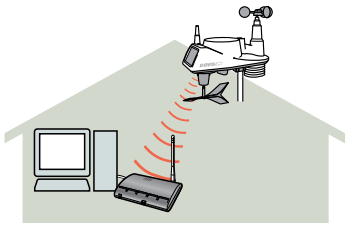
Can listen to up to 8 transmitting stations



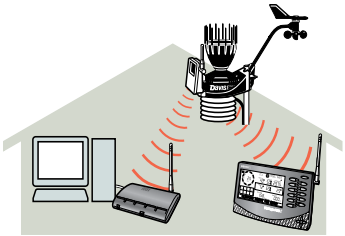
Wireless field station with Solar Power Kit (6614) and optional sensor probe (6475 or 6477). Runs on batteries or Solar Power Kit.



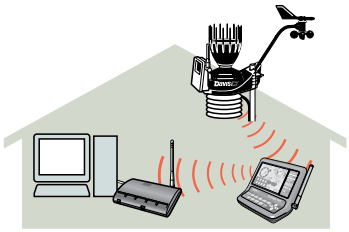
Install Weather Envoy close to your computer using the included USB cable and AC adapter.



Use Weather Envoy in place of Vantage Vue or Vantage Pro2 console.



Transmit to both the Weather Envoy and console



Retransmit data to Weather Envoy from console

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.

7876-008 8' (2,4 m)
7876-040 40' (12 m)
7876-100 100' (30 m)
7876-200 200' (61 m)

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

* **Anemometer 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.

Things to consider when purchasing a weather station

1. WHAT WEATHER VARIABLES ARE MEASURED AND RECORDED?
Most other stations offer barometric pressure, outside humidity and dew point, daily and yearly rainfall, wind speed and direction, wind chill and outside temperature. Some also offer inside temperature and humidity, and a few even give you extra outside temperatures and rain rate. Only Vantage Pro2 or Vantage Vue give you those features, plus:

- Additional Rainfall Information: 15-minute, hourly, monthly and yearly rainfall, and rainfall amounts for each of the last 24 storms.
- Additional Wind Speed Information: 10-minute average wind speed and dominant wind direction. In addition, with Vantage Vue, you get 2-minute average speed, high speed and direction in the last ten minutes.
- Apparent Temperature: Heat index, and with Vantage Pro2's optional solar radiation sensor, the temperature-humidity-sun-wind index.
- Vantage Pro2 optional Solar and UV Radiation Sensors: Greater awareness of the dangers of excessive exposure to the sun.
- For agricultural users: Evapotranspiration, leaf wetness, soil moisture and soil temperature with Vantage Pro2 optional sensors.

2. HOW EASY IS IT TO SET UP?
With most competing stations, you need to install each sensor separately, which adds complication and takes time and effort. Vantage Pro2 and Vantage Vue are factory-assembled to make setup as easy as possible. Just complete a few minor assembly steps, insert the battery, and you're ready to mount the sensor suite. Mounting is further simplified by using our optional tripod. On Vantage Pro2, gain further accuracy by detaching the anemometer from the sensor suite and mounting it separately.

3. WHAT IS THE MAXIMUM TRANSMISSION DISTANCE?
The wireless transmission range for most competing stations is generally quite limited. Although range is highly variable (depending not only on the physical features of the land and structure but also on RF interference in the area), Vantage Pro2 and Vantage Vue will almost always outperform the competition. And we offer wireless repeaters and Vantage Connect should you wish to extend the range even further.

4. HOW MANY HIGHS AND LOWS ARE MEASURED AND RECORDED?
Most other stations simply give you the current readings. If highs and lows are available at all, they are usually quite limited. Only Vantage Pro2 and Vantage Vue give you the highs and lows (and/or totals or averages) for just about all weather conditions, with time and/or date for the last 24 days, months or years for Vantage Pro2, and current and last 25 days, months or years for Vantage Vue. No other stations on the market even come close. And not only can you view the data numerically, you can also view on-screen graphs, for instant visual representations of long-term trends.

5. HOW OFTEN IS THE INFORMATION UPDATED?
The Vantage Pro2 and Vantage Vue transmitters send data to the console every 2.5 seconds. Highly variable conditions (such as wind speed and direction) are updated with each packet, while less variable conditions are updated every 10 seconds. With most competing stations, the update interval is much longer: 30 seconds, or even up to 3 minutes. This may not seem important, but try watching the wind gust or the rain suddenly come pouring down. It's very disconcerting to look out the window, see something happen weather-wise, and not see it reflected on the console right away.

6. HOW IS THE FORECAST GENERATED?
The competition generally bases their forecast on barometric pressure alone, which results in none too accurate a prediction. Vantage Pro2 and Vantage Vue use a sophisticated forecasting algorithm which takes into account not only barometric pressure, but also wind, rainfall, temperature, humidity and longitude and latitude. The result? A much more accurate forecast. Not perfect, but even the guys with the satellite pictures don't always get it right!

7. HOW IS THE FORECAST DISPLAYED?
Competing stations use icons to show the forecast. Vantage Pro2 and Vantage Vue have similar icons, plus Vantage Pro2 has over 80 different forecast messages that scroll across the bottom of the display. None of the other stations have this. The Vantage Pro2's ticker tape also gives additional information depending on which key you press. Both Vantage Pro2 and Vantage Vue are able to display 10-minute average wind speed, the last 15 minutes and last 24 hours of rain. These are only a few examples of Davis stations' unique features. Competing stations don't have anything like this.

8. HOW MUCH DATA CAN YOU GRAPH ON THE SCREEN?
With Vantage Pro2 and Vantage Vue, you can graph just about every weather variable, with averages and highs and lows for most, and go back in time for minutes, days, months and years. The competition typically graphs just one variable—barometric pressure—and typically just for the last 24 hours. With all the graphs on Vantage Pro2, and with the Weather Center feature on Vantage Vue, you can do tons of analysis, even without purchasing a software package. You'll find that the more dramatic the weather is, the more fun it is to look at the graphs. Just how windy is it and how does it compare to the last wind storm? How much rain did we get this month as compared to last month?

9. CAN YOU USE THE STATION AT HIGHER ELEVATIONS?
Our stations can be used up to 15,000 ft. (4570 m) in elevation. Many competing stations are limited to 6,000 ft. (1829 m) or below. If you're lucky enough to live and work—or perhaps enjoy a vacation home—in the mountains, you'll find that our Vantage Pro2 and Vantage Vue weather stations work just fine, no matter what the elevation.

10. IS THERE A COMPUTER INTERFACE?
If you'd like to do even more analysis, add our WeatherLink data logger and software package. The data logger stores data at the interval you choose (from one minute to two hours) for up to six months. Transfer the data whenever you like, or leave your computer on to have it transfer automatically every day. For some competing stations, no software package is available. Other stations do offer software, but don't include a data logger—so your PC must be on and the software running at all times.

11. HOW MANY ALARMS ARE THERE?
With Vantage Pro2 and Vantage Vue, alarms can be set for just about every weather variable, for just about any reason imaginable—up to 70 alarms for Vantage Pro2 and 22 for Vantage Vue. The alarms found on competing stations are generally quite limited.

12. WHAT IS THE ACCURACY, RESOLUTION, AND RANGE?
Vantage Pro2 and Vantage Vue generally beat their similarly-priced competition in accuracy, resolution and range. It can be difficult to find the specs for competing stations. When we do find them, our testing shows that they are a bit, shall we say, optimistic. We are proud to publish our specs in our catalog and on our website, and stand behind them 100%.

13. HOW MANY PEOPLE ARE USING THE STATIONS?
There are many, many thousands of happy Davis weather station users around the country and around the world. You'll find that many Davis weather station owners participate as volunteer observers for the National Weather Service, the National Hurricane Center, and numerous local TV and radio stations. You can also visit www.weatherlink.com and see a worldwide map of Davis weather station owners who use our WeatherLinkIP software, which along with other features, creates its own weather website for your weather station.

14. HOW LONG HAS THE COMPANY BEEN IN BUSINESS?
Established in 1963, Davis Instruments opened up the home weather station market back in 1989. Our weather stations are assembled and tested right here in Hayward, California, where we have a full staff giving the best customer service and aftermarket support in the business. In addition, Davis Instruments Quality Management System is ISO 9001 certified.

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Contact Us

We're always glad to help.

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For information about the WeatherLink Network visit www.weatherlink.com

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.

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