

# 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.

### Design Your Weather Station

Weather enthusiasts want an accurate, reliable weather station that is both easy to install and easy to use. We've designed our Vantage Vue® and Vantage Pro2™ weather stations (complete with integrated sensor suites, information-packed consoles and long wireless distance capabilities) to meet those needs. WeatherLink® software is available separately to complete your package.

Some users want to create a customized weather system to meet their individual needs. In designing such a system, it is important to know how to mix and match sensors, transmitters and receivers; integrate specialized software; and choose the right option for remote communications. We've added small icons by each product to easily identify sensors, transmitters, repeaters, receivers and software. Compatibility charts on pages 28 and 29 will help you design the perfect weather system for your special needs. We've also included a few examples to demonstrate different usage scenarios (pages 24 and 25).

Our technical staff is happy to assist you in choosing or customizing the Davis weather station to best suit your needs. We welcome your call at (510) 732-7814.



#### What's New?

**6622 Vantage Connect 2G/3G.** Now uses the 2G/3G network. (*Page 12*)

**6825** GroWeather®: A New Ag-Focused Vantage Pro2 Integrated Sensor Suite. Includes Solar Radiation Sensor and a 24-hour Fan-Aspirated Radiation Shield. (*Page 13*)

We upgraded the outside temperature/humidity sensor in all of our Vantage Pro2 integrated sensor suites. The new sensor's temperature accuracy is now  $\pm 0.5^{\circ}\text{F}\ (\pm 0,3^{\circ}\text{C})$ , vs.  $\pm 1.0^{\circ}\ \text{F}\ (\pm 0,5^{\circ}\text{C})$  before. Humidity accuracy is now  $\pm 2\%$ , vs.  $\pm 3\%$  before. We also incorporated this sensor in the Temperature/Humidity sensor options below.

**6382 Wireless Temperature/Humidity Station** has been upgraded and is now solar-powered. (*Page 14*)

6830 New Temperature/Humidity Sensor with Radiation Shield (Page 17)

6832 New Temperature/Humidity Sensor with 24-hour Fan-Aspirated Radiation Shield (Page 17)

#### Look for these additional symbols



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.



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#### Contact Us

Please contact one of our customer service representatives if you have any questions. We're always glad to help.

#### Customer Service Order Line:

(510) 732-9229 Fax: (510) 670-0589 E-mail: sales@davisnet.com

Monday-Friday, 7:00AM-5:30PM Pacific Time Our representatives can answer most questions and assist you with your purchase.

#### Technical questions/troubleshooting:

Phone: (510) 732-7814 Fax: (510) 670-0589 E-mail: support@davisnet.com

Monday-Friday, 7:00AM-5:30PM Pacific Time

#### General:

Phone: (510) 732-9229 Toll-free: (800) 678-3669 Website: www.davisnet.com E-mail: info@davisnet.com

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.

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

#### 30-Day Money-Back Guarantee

If for any reason you are unsatisfied with anything purchased from us, return it within 30 days and we will gladly refund your purchase price. Shipping charges are not refundable. This guarantee does not apply to opened software packages.

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# 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 the optional WeatherLink® data logger and software, 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, 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 \$395 PATENTED









#### 1. WIRELESS

Frequency-hopping spread spectrum radio ensures consistent transmission up to 1,000 ft. (300 m) lineof-sight from integrated 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.

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. 8. WIND DIRECTION



6250 Vantage Vue



View and store your weather data on your computer.

See our WeatherLink

software on page 18.

**«** The Integrated 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<sup>™</sup>: 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, schools, researchers, municipalities and others to monitor wind and moisture conditions, irrigation requirements and potential flooding.

# 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.

#### Features:

- Large, backlit 3.5"  $\times$  6" (9  $\times$  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)

#### 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.

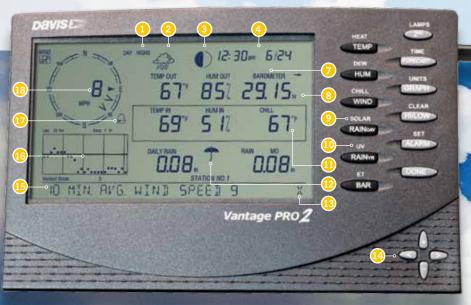
Vertical scale changes depending on what you are graphing.

#### 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 integrated 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: From \$595 (See page 8 for models and prices.) PATENTED











#### 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 integrated 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. Multiplate 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 integrated sensor suite's

#### 8. SOLAR RADIATION AND UV SENSORS (SHOWN WITH

Includes sensors to track solar radiation. evapotranspiration

electronic components.

# VANTAGE PRO2 PLUS)

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.



View and store your weather data on your personal computer using WeatherLink software. Optional WeatherLink data logger and software offer additional analyses in a variety of versions. See page 18 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 selfemptying, corrosion resistant and laser calibrated for exceptional accuracy.





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



self-contained, easy-

powered transmitter.

to-install system.

Includes solar-

Vantage Pro2 Shown here: 6152

wide range of options and sensors. Solar-powered

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

transmitter and detachable anemometer.



Vantage Pro2 Plus Shown here: 6163

Includes UV & solar radiation sensors.

ı	24-hour fan aspiration model achieves maximum
ı	accuracy of temperature & humidity readings by
ı	circulating the air. Ideal for arid climates.

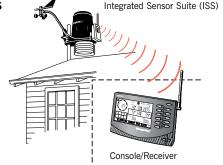
vantage models		lightning dama	ge.	luceu lisk oi			
The Davis line of Vantage weather stations is built to provide a full weather system. To maximize your weather watching, a variety of additional sensors and stations are available to make your weather station even	6250 <b>Wireless</b> <b>\$395</b>	6152C Cabled \$595	6152 Wireless \$650	6153 Wireless w/Fan \$850	6162C Cabled \$1040	6162 Wireless \$1095	6163 Wireless w/Fan \$1295
more comprehensive.	\$333	<b>\$393</b>	\$050	<b>\$630</b>	\$1040	\$1093	<b>\$1293</b>
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	•						
INTEGRATED 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 (Adds \$55)

#### 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 (Adds \$445)

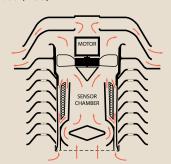
#### **Benefits**

- Solar and UV sensors come pre-installed
- · Console calculates ET
- Save \$135 over buying separately
- See page 8 for more information



# 3. Choose a model with 24-Hour Fan-Aspirated Radiation Shield (Adds \$200)

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 \$135

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 make a single 37.5" (0.95 m) long

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 the Vantage Pro2 and Pro2 Plus, as well as the Vantage Vue integrated sensor suites.

7717 Mounting Pole Kit \$35



#### 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 \$95 7716A Mounting Tripod with lag bolts \$115 Send and store data directly from outdoor sensors to your personal computer with Weather Envoy

#### Weather Envoy™

Weather Envoy, when used along with WeatherLink software, will collect and store the same data set as a Vantage Pro2 console. Connect it to your computer with hardware included with WeatherLink for easy and convenient downloading without a console/receiver. Use WeatherLink's automatic download feature, or manually download to your computer at your convenience, then use the WeatherLink software to view current conditions, graph and chart historical data, or even create your own weather web pages. (Also compatible with WeatherLinklP.)

Like the wireless Vantage Pro2 console, wireless Weather Envoy can listen to up to eight transmitters. However, the maximum number of each type of transmitter is limited (see comparison table on page 11). 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 15). 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)

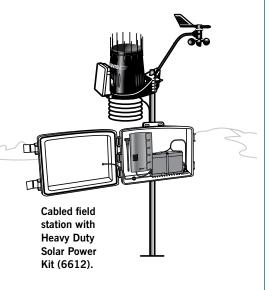
6316 Wireless Weather Envoy \$175

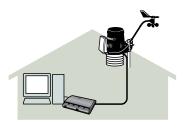
6316C Cabled Weather Envoy \$165







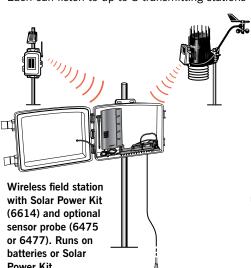




Can be used with one cabled ISS

#### Wireless Weather Envoy and Envoy8X

Each can listen to up to 8 transmitting stations



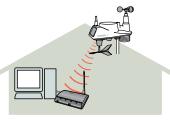




Transmit to both the Weather Envoy and console



Install Weather Envoy or Envoy8X close to your computer using the included USB cable and AC adapter.



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



Retransmit data to Weather Envoy from console

# Envoy8X: Designed for customers who need data from multiple stations

#### Envoy8X™

With 32 times the memory of our Weather Envoy, Envoy8X receives and logs data simultaneously from up to eight transmitting stations, in any combination even eight Integrated Sensor Suites or eight Leaf Wetness & Soil Moisture/Temperature Stations! Doing the math, that means you can get data from 32 soil moisture sensors on one Envoy8X! Includes robust software that allows for data from many sensors and multiple Envoy8Xs to produce very large databases in Microsoft Access, MySQL or Microsoft SQL Server. You select which sensors to log, and choose a logging interval from 10 seconds to 2 hours. You can even add select third-party sensors that report readings in a 0-3 volt range. Data can be easily exported to a spreadsheet program such as Excel, or to

WeatherLink to take advantage of WeatherLink's graphing and reports.

Storage capacity depends upon the logging interval, but is so large that you can download a remote field installation when it's most convenient. For example, an Envoy8X logging two Integrated Sensor Suites and two Soil Moisture/Leaf Wetness stations at a 15-minute update interval will store **over 365 days** worth of data.

Envoy8X has built-in temperature and humidity sensors, as well as a barometer. The software will report data from those sensors as "inside" data, effectively giving you a ninth "station." You can connect an external temperature probe (6475 or 6477) to replace the Envoy8X's internal temperature probe (see page 16). Receives data from

all Vantage Pro2 and Vantage Vue radios and repeaters. Includes an AC-power adapter; may also be run using a Solar Power Kit (6612 or 6614) or on three AA batteries.

Expected battery life is 1 to 4 months depending on the logging interval. Requires WeatherLink for Windows (USB or Serial). Not compatible with Vantage Connect.

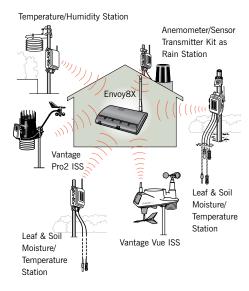
6318 Envoy8X \$225





# Envoy8X logs data from all your transmitters

Can listen to as many as eight transmitting stations in any combination



#### Envoy8X Software System Requirements:

Windows XP or later; 32 MB memory (64 MB recommended); VGA/SVGA monitor (800 x 600 or higher recommended). MS Access run-time engine is included. MS Excel, MySQL and SQL Server are not included.

Features	Weather Envoy	Envoy8X
Can listen to up to 8 transmitters	Yes	Yes
Maximum number of integrated sensor suites (ISS)	1	8
Maximum number of Anemometer/Sensor Transmitter kits	1*	8
Maximum number of Leaf & Soil Moisture/Temperature stations	1**	8
Maximum number of Temperature stations	3	8
Maximum number of Temperature/humidity stations	2	8
Maximum number of Rain stations	1	8
Stored memory capacity: 1 ISS @ 30 min. update	45 days	5 years
How is data viewed?	On PC using WeatherLink	On PC, using Envoy8X software and WeatherLink
Most frequent logging interval	1 minute	10 seconds
Works with WeatherLinkIP and WeatherLink for Mac	Yes	No
External databases supported	None	Access, MySQL, MS SQL Server
Can export data directly to Excel	No	Yes
Retransmits to another receiver	Yes	No
Works with 3rd-party sensors	No	Yes
Compatible with repeaters	Yes	Yes
Supports 0.1 mph (0,1 m/s) wind speed reading resolution	No	Yes***

- \* When used to extend Vantage Pro2 anemometer from the ISS. Otherwise, 0.
- \*\* Can use 2 only if one is leaf wetness and one is soil moisture.
- \*\*\* When using a Vantage Vue ISS. (Vantage Vue console does not support this resolution.)

## **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, without leaving your home or office. Vantage Connect works with both wireless and cabled weather systems.

#### **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. View the data online using your computer or 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 text message alarm when preset weather conditions, such as high wind or frost warnings, occur.

Partner Vantage Connect with a Vantage Vue ISS or any Vantage Pro2 ISS or additional transmitting stations (see page 13). 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 ISS. 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 16).

Vantage Connect is a self-contained, weather resistant, solar-powered unit that comes with mounting hardware, WeatherLink software and your own WeatherLink Network account (see page 19 for more information). Requires an annual service plan and one-time activation fee; see Annual Service Plan for details.

Radio compatible with Vantage Pro2 and Vantage Vue transmitters and repeaters (see pages 14–15). Solar-powered with battery backup. Computer system requirements: Windows XP or above. iPhone and Android compatible.

6621 Vantage Connect, CDMA \$750 6622 Vantage Connect, 2G/3G \$825



#### **Annual Service Plan**

Hardware requires a \$25 one-time activation fee. Purchase of an annual service plan is necessary. Monthly subscriber fees depend on the frequency of your update interval.

CHOOSE Y	CHOOSE YOUR PLAN (US ONLY)												
Update Interval	Product Number	Annual Service Charge											
5 minutes	6632	\$239.40											
15 minutes	6634	\$179.40											
60 minutes	6636	\$119.40											

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



# **Integrated Sensor Suites**





#### Vantage Vue Integrated Sensor Suite

Because Vantage Vue's transmitters are radiocompatible with Vantage Pro2, you can mix and match components. The ISS can transmit to Vantage Vue and wireless Vantage Pro2 consoles, wireless Weather Envoy, Envoy8X and Vantage Connect. Mounting pole not included.

#### 6357 Vantage Vue Integrated Sensor Suite \$220



#### Vantage Pro2 Integrated Sensor Suite

Includes all the features of the Vantage Pro2 and Pro2 Plus integrated sensor suites shown on page 8. Compatible with Vantage Vue and Vantage Pro2 consoles, Weather Envoy, Envoy8X and Vantage Connect. Mounting pole not included.

WIRELESS INTEGRATED SENSOR SUITE 6322 with Standard Radiation Shield \$405 6323 with 24-Hour Fan-Aspirated Radiation Shield \$605

**CABLED INTEGRATED SENSOR SUITE\*** 6322C with Standard Radiation Shield \$350

WIRELESS INTEGRATED SENSOR SUITE PLUS with LIV and Solar Radiation Sensors 6327 with Standard Radiation Shield \$850 6328 with 24-Hour Fan-Aspirated Radiation Shield \$1050

**CABLED INTEGRATED SENSOR SUITE PLUS** with UV and Solar Radiation Sensors\* 6327C with Standard Radiation Shield \$795

\* Cabled Integrated Sensor Suites can only be used with a cabled Vantage Pro2 console, cabled Envoy or cabled Vantage Connect, and include 100 ft. (30 m) cable.

All Vantage Vue and wireless Vantage Pro2 Integrated Sensor Suites can be used with Vantage Connect, wireless Weather Envoy and Envoy8X.

All Integrated Sensor Suites are compatible with WeatherLink (see page 18).

#### **NEW! GroWeather® Integrated Sensor Suite FOCUS ON AGRICULTURE**

6825 GroWeather Wireless with Solar Radiation Sensor and 24-Hour Fan-Aspirated Radiation Shield \$820

6825C GroWeather Cabled with Solar Radiation Sensor and 24-Hour Fan-Aspirated Radiation Shield\* \$765





# Add special-purpose stations or sensors

Customize your Vantage Pro2 weather station, Vantage Connect, Weather Envoy or Envoy8X 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 for up to eight stations, add an Envoy8X and WeatherLink (see chart on page 11). 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,
- 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 \$225



6345CS Complete Soil Moisture/Temperature Station with 4 soil moisture sensors and 4 temperature probes \$595









# More special-purpose stations

#### Anemometer/Sensor Transmitter Kit

With Vantage Pro2 and Weather Envoy, this solarpowered kit allows you to mount the anemometer in a different location than the integrated sensor suite-up to 1,000 ft. (300 m) from your wireless console/receiver. With Envoy8X, you can use this kit with any of our sensors including solar radiation, UV, temperature, anemometer, rain and third-party sensors that report in a range of 0-3 volts. For longer distances, add 1 or more wireless repeaters. Includes weather-resistant shelter for transmitter, solar panel, battery, and mounting hardware.

#### 6332 Anemometer/Sensor Transmitter Kit \$150



#### **UPGRADED TEMPERATURE/HUMIDITY SENSOR & NOW SOLAR-POWERED**

#### Wireless Temperature/Humidity Station (Solar-powered)

Features temperature and humidity sensors 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 or Envoy8X and WeatherLink. Includes mounting hardware. Mounting pole is not included.

#### 6382 Wireless Temperature/Humidity Station \$235



#### 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 or Envoy8X and WeatherLink. Expected battery life is 6 to 9 months.

#### 6372 Wireless Temperature Station \$175









# 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 1 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 13-14 for additional details).

6351 Vantage Vue Console/Receiver \$195







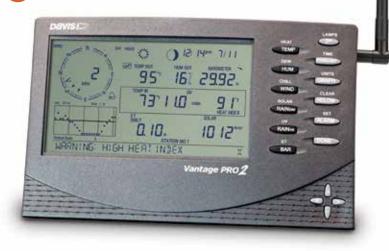
6312 Wireless Vantage Pro2 Console/Receiver \$295

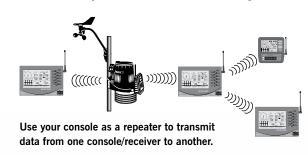












# Extend the range of your wireless station—for miles on end!

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 Integrated 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.



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 \$300



REPEATER DISTA	REPEATER DISTANCES												
Antenna Combination	Multiplier		I 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.



Long-range repeater with one Yagi and one Omni antenna.



#### **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 \$175

7660 Yagi Antenna \$150

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.



#### **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 \$250





#### 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. Two-piece housing minimizes radiation heating, allows convection cooling of the sensor and prevents the trapping of water or dust. To mount next to a rain collector, add our Sensor Mounting Shelf (not included, see page 17). Includes 2 ft. (0,6 m) cable.

#### 6450 Solar Radiation Sensor \$175



#### 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. Latest-technology transducer and newly-designed electronics provide greater accuracy and stability. The new comb structure provides improved cosine response accuracy at zenith angles up to 90 degrees. Two-piece housing minimizes radiation heating, allows convective cooling of the sensor and prevents the trapping of water or dust. To mount next to a rain collector add our Sensor Mounting Shelf (not included, see page 17). Includes 2 ft. (0,6 m) cable.

#### 6490 UV Sensor \$375





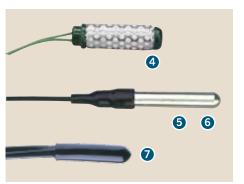
#### 3. Leaf Wetness Sensor

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 \$125



See page 31 for extension cables and maximum cable lengths.



#### 4. 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 \$60





#### 5. 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 \$50







#### 6. 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, Envoy8X and Anemometer/Sensor Transmitter Kit. Includes 25 ft. (7,6 m) cable.

#### 6475 Stainless Steel Temperature Probe with RJ Connector \$45







#### 7. Temperature Probe with RJ Connector

Temperature probe with durable plastic housing. Use to measure temperature of air, soil or water. Use with Weather Envoy, Envoy8X and Anemometer/Sensor Transmitter Kit. Includes 25 ft. (7,6 m) cable.

#### 6477 Temperature Probe with RJ Connector \$18









#### 8. 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 \$150





#### 9. Rain Collector

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

7852 Rain Collector \$85 PATENT PENDING





#### 10. Rain Collector with Mountable Base

Same accurate measuring mechanism as the original design. 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.

#### 7857 Rain Collector with Mountable Base \$100 PATENT PENDING





#### 11. 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 \$165







#### NEW

# 12. 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 \$125



### NEW

# 13. 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 \$325



Installation options for your Vantage Vue or Vantage Pro2 console, Weather Envoy, Envoy8X or Vantage Connect



#### 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 \$250

#### 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, an Envoy8X or wireless consoles where more power is needed. There is enough room inside the weather resistant shelter to mount an Envoy8X or 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 \$275



#### 3. Extra Solar Panel Kit

Provides additional charging power to the battery in your solar power kit (6612 or 6614) or Vantage Connect 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 \$150

#### 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 or Envoy8X with WeatherLink data logger. Includes mounting hardware. Measures  $13.75^{\circ} \times 10^{\circ} \times 4.18^{\circ}$  (34,9 cm x 25,4 cm x 10,6 cm).

#### 6618 Universal Shelter \$85

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



#### 5. Rain Collector Heater

Heater and insulation fit neatly inside the 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 and AC-power adapter. Includes 50 ft. (15 m) cable.

#### 7720 Rain Collector Heater \$195

#### 6. 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 \$75

Assembly required.

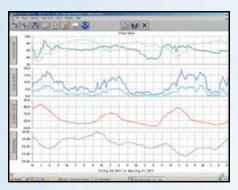
#### 7. Sensor Mounting Shelf

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.

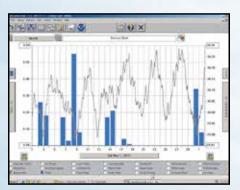
6673 Sensor Mounting Shelf \$30

# 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 or Envoy8X to collect and store your weather data. Connect the data logger to your computer to download the data to the software for detailed analysis and graphing. Choose our popular WeatherLinkIP model to automatically upload to the WeatherLink Network or see the chart on page 22 to determine which of our eight models is best for you.



Graph data on a daily, weekly or yearly basis.



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



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.
- Citizen Weather Observer Program. Submit your data to the National Weather Service to help develop improved weather prediction models. www.wxga.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. Transfer the data as often as you like, or leave the software running to transfer it automatically each day.
- · Internet Protocol (IP) Model. Upload your weather data to the Internet within minutes. No web skills required—WeatherLinkIP does all the work for you!

- · Alarm Output & Irrigation Control Models. Both include our standard data logger plus a connector block that allows you to connect to your irrigation system, or to a heater, fan or other device.
- Streaming Data Logger Models. Provide a continuous stream of data to a PC or to a ham radio with a TNC modem.

#### WeatherLink with Standard **Data Logger**

Our most popular models, 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. (Envoy8X is compatible only with the 6510USB and 6510SER.)

WeatherLink for Vantage Pro2 and Vantage Vue 6510USB Windows USB Version \$165 6510SER Windows Serial Version \$165 6520 Mac® OS X Version \$165



Data logger fits neatly into all Vantage Pro2, Vantage Vue, and Envoy models. (Appearance varies depending on model.)

# Easily view your weather data on the web

WeatherLink.com is Davis' global weather network with thousands of weather stations reporting. Each reporting station has its own page on the site and is shown on the map as a temperature-color-coded dot that makes it easy to see temperatures worldwide. Click on a dot to see current weather conditions for that station. Each WeatherLink.com account also includes a private page with enough storage capacity to store up to two years' worth of weather data.



Adding your station to the WeatherLink Network is as simple as "plug-and-play"—no web skills needed! Simple configuration steps are required to upload to third-party sites or set e-mail alert conditions.

#### On WeatherLink.com you can:

- Automatically upload data to third-party weather sites including CWOP (Citizen Weather Observer Program), Weather Underground, the GLOBE Program and more.
- Get e-mail alerts of current weather conditions or simple alarm conditions.
- Download the data to your PC for all the same powerful charting, graphing and analysis of WeatherLink software. Extra User License Kits allow you to download the data independently to multiple PCs—ideal for schools, agriculture, scientific fieldwork and remote locations.
- Store four times the data that can be stored on your data logger alone.
- View your data on the WeatherLink.com map or your iPhone or Android app.
- Allow others to view your current weather data, or flag your page as private.

#### Free Mobile Apps

See your WeatherLink Network station's data on your smartphone. Scan the applicable QR code below or search for WeatherLink on iTunes or the Google Play Store.



6556 WeatherLink iPhone App





6557 WeatherLink Android App

# Three ways to join the WeatherLink Network:

#### WeatherLinkIP

You can post your weather data directly to WeatherLink.com without a PC using WeatherLinklP. 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. WeatherLinklP 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. Not compatible with Envoy8X. A router or hub and Internet service is required. No annual subscription required.

6555 WeatherLinkIP \$295





# WeatherLink Network Annual Subscription\*

for WeatherLink Serial and USB Data Loggers. Makes any Davis weather station (including classic Vantage Pro, Monitor, Wizard and Perception stations) into a WeatherLink.com station. With the annual subscription, your weather data is automatically uploaded to WeatherLink.com as long as your computer is on, and the software is running. Not compatible with Envoy8X. Requires a PC, WeatherLink v6.0 (upgrade for free on www.davisnet.com/support/weather/downloads) and Internet service. Not required for WeatherLinkIP or Vantage Connect.

6558 WeatherLink Network Annual Subscription \$30/year

6559 WeatherLink Network 3-year Subscription \$75

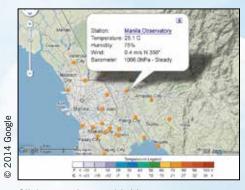
#### **Vantage Connect**

A WeatherLink Network page is included with the purchase of the Vantage Connect. For more details, see page 12.

# See it now at www.WeatherLink.com

	Carlinville, Illinois Correct Candillons as of 2-61-69 Translay, October 23, 5612										
Station Swimmary	Current	Today's Hig	(ha	Today's							
Outside Temp. Outside Humidity	69.4 F 81%	75.7 F 90%	342 PM 10 47 AM	613F 79%							
inside Temp inside Humidity	80.5 F 38%	90.5 F 38%	3:27 PM 12:00 AW	78.5 F 38%							
Heat Index Wind Chill Dow Point	71.0 F 60.0 F 63.0 F	72.0 F 65.0 F	2:23 PM 2:16 PM	61 0 F 57 0 F							
Bartimeter Bar Twind	29 ASST Falling Slowly	29.564*	BSS AM	29.8587							
Wind Speed Wind Direction	2 Mph 652 154*	16 Mph	12:07 PM								
Solar Radiation UV Radiation	207 W/m² 0.0 Index	754 Wim <sup>1</sup> 0.8 Index	1:05 PM 11:27 AM								
12 Hour Forecast	Partielly Cloudy, No	en within 12 hours									

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



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



See detailed, current weather data for any station worldwide.

#### **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. For full use of all the modules, we recommend:

- · Vantage Pro2 or Pro2 Plus Weather Station
- Wireless Leaf & Soil Moisture/Temperature Station (without sensors)
- Leaf Wetness Sensor
- WeatherLink for Windows
- Vantage Connect for remote access to your weather data

While each 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 \$295 6572 Integrated Pest Management Module for Apples & Pears \$295 6573 Integrated Pest Management Module for Stone Fruits \$295 6574 Integrated Pest Management Module for Nut Trees \$295

#### PEST RISK ASSESSMENT SUMMARY DATA PANE Color-coded to identify which pests currently pose Displays last 6 weeks of a particular pest's activity. a danger to crops and sorted by severity level. ol. Downy Mildew of Grape Pest Risk Assessment Summary 100 Pest Name Current Stage Degree Days Level Light Brown Apple Moth of Grape Larva - 34% done 491.78 (4) High Variegated Cutworm of Grape Lab Studies 507.34 (4) High Larva - 53% done Orange Tortrix of Grape 575.97 (4) High Larva - 45% done Redbanded Leafroller of Grape 508.71 (4) High First Emergence of Larva Grape Phylloxera 579.34 (4) High Second Generation 50 Western Grapeleaf Skeletonizer 405,61 (4) High Larva - 12% done European Grapevine Moth 353.87 (4) High Larva - 49% done Glassy-winged Sharpshooter of Grape 266,65 (4) High Egg Hatch - 8% done Grape Berry Moth Pennsylvania (4) High Larva - 76% done Phomopsis Cane & Leaf Spot of Grape Catawba 31.67 (3) Moderate Phomopsis Cane & Leaf Spot of Grape Seyval (3) Moderate (3) Moderate First Generation Crawlers Grape Scale 353.87 Japanese Beetle of Grape 353.87 (2) Low Egg Hatch - 54% done Day 06/18/11 Grape Root Borer 353.87 (2) Low Larva - 18% done Anthracnose of Grape (1) None 3.67 Hourly Table C Daily Table 🕟 Last 6-week Plot Export Grape Berry Moth Arkansas 353.87 (1) None First Generation of Eggs European Red Mite of Grape Males 324.11 (1) None Downy Mildew of Grape Generation Time Downy mildew, caused by the obligate Omnivorous Leafroller of Grape 411.85 (1) None Egg - 82% done parasite Plasmopara viticola, is European Red Mite of Grape Females 324.11 (1) None Generation Time potentially one of the most destructive diseases of grape in the world. The Pacific Spider Mite of Grape 300.84 (1) None Generation Time disease is especially serious in climates European Corn Borer of Grape 353.87 (1) None Larva - 94% done with abundant rainfall, high relative humidity, and prolonged periods of Eastern Grape Leafhopper 353.87 (1) None Eaa - 95% done wetness on leaves and fruits. The Potato Leafhopper of Grape Field Studies 288.34 Egg - 84% done (1) None fungus infects all parts of the grape vine. It causes losses by killing leaf Potato Leafhopper of Grape Lab Studies 288.34 (1) None Egg - 88% done tissues and defoliation. Also, it rots the ripening grapes and weakens, dwarfs, and kills the young shoots. First Powdery Mildew of Grape 0.00 (1) None Conidial Downy Mildew of Grape 0.00 (1) None symptoms are yellow circular spots with an oily appearance on the upper leaf surface. On the underside of the Twospotted Spider Mite of Grape California 273.76 (1) None Generation Time leaf face the fungus appears as a Western Grape Leafhopper 340.16 (1) None Egg - 83% done nse. white, cottony gro 20.96 Botrytis Bunch Rot of Grape (1) No The young berries Black Rot of Grape 4.00 (1) N PEST DESCRIPTION PANE They appear **PEST IMAGE** covered with a dow Learn more about the pests that can Provides a picture of the pest to help you potentially damage your crop. 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 XP SP3 or above. Compatible with Weather Envoy and Envoy8X.

#### **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 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
   Control Tantifus
- Spotted Tentiform Leafminer
- Tufted Apple Bud Moth
- Twospotted Spider Mite
- White Apple Leafhopper

# 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 \$65



#### **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 MothSan Jose Scale
- Twospotted Spider Mite
- Western Cherry Fruit Fly

#### **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 ScaleTwospottedSpider Mite
- · Walnut Husk Fly

# Critical real-time data right when you need it

#### WeatherLink for Alarm Output with Connector Block

Now you can automatically turn heaters, fans and other devices on or off using your weather station. For each of four outputs, you can enter up to eight different weather parameters. Enter threshold values for each, select from nine different test conditions, and link the entries together as you choose. For example, you could activate a fan to cool your house—but only if the difference between the inside and outside temperatures is more than 5°F, it's more than 72°F inside and it's between 5:00 p.m. and 6:00 a.m. Our connector block provides the interface between your weather station and an electrical device. For high-power devices, you may also need to add electrical relays (not supplied by Davis). Connection to a PC is not required except for initial setup.

6544 WeatherLink for Alarm Output \$195

#### WeatherLink for Irrigation **Control with Connector Block**

Use your weather station to turn your irrigation system on or off automatically. Connector block connects directly to many irrigation systems. For industrial controllers, provides electronic pulses for wind, rain, and ET. For homeowners, looks at rain and ET values to determine when to inhibit watering. Can also set console alarms to inhibit watering when temperatures are too low or winds are too high. ET monitoring requires solar radiation sensor. Connection to a PC is not required except for initial setup.

#### 6560 WeatherLink for Irrigation Control \$195

#### WeatherLink for APRS with Streaming Data Logger

For ham radio operators, including storm chasers and volunteer weather watchers. Connects a Vantage Pro2 console, Vantage Vue console or Weather Envoy to a ham radio with TNC modem for instant transmission of both your location and the local weather conditions via APRS. Connection to a PC is not required except for initial setup.

6540 WeatherLink for APRS \$165





# Choose the WeatherLink model that suits your needs

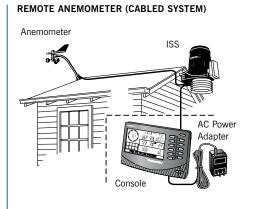
To get the most out of WeatherLink, choose the model that's right for you. All share the powerful weather data logging and reporting features discussed on page 18, while some add special features designed for specific user groups.

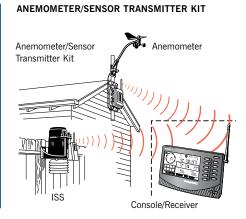
Extra User License Kit includes software on CD and extra user license.

SYSTEM REQUIREMENTS	MODEL	PRICE	FOR USE WITH	DESIGNED FOR	NOTES	EXTRA LICENS	
Windows, USB Windows XP and above	6510USB	\$165	Vantage Pro2, Vantage Vue, Weather Envoy or Envoy8X	General Purpose	For PCs with USB connections.	6510X	\$25
Windows, Serial Windows XP and above	6510SER	\$165	Vantage Pro2, Vantage Vue, Weather Envoy or Envoy8X	General Purpose	For PCs with serial port connections.	6510X	\$25
All models with streaming data loggers or connector blocks include all our normal WeatherLink features, plus additional features designed	6540	\$165	Vantage Pro2, Vantage Vue or Weather Envoy	APRS (Ham Radio)	Connects to a ham radio with TNC modem for instant streaming transmission of both your location and the local weather conditions via APRS (Automatic Packet Reporting System).	6510X	\$25
for special purposes.  To download one of these models via USB, add our # 8434 USB-to-	6544	\$195	Vantage Pro2, Vantage Vue or Weather Envoy	Alarm Output	Use to turn heaters, fans or other devices on or off depending on weather conditions. (For high-power devices, you may also need to add electrical relays.) Includes connector block.	6510X	\$25
Serial Cable \$20	6560	\$195	Vantage Pro2, Vantage Vue or Weather Envoy	Irrigation Control	Connects to many irrigation systems. Provides electronic pulses for wind, rain, and ET, or uses the alarm settings in the console. Includes connector block.	6510X	\$25
Internet DSL or cable connection and router with free ethernet port. Windows XP and above	6555	\$295	Vantage Pro2, Vantage Vue or Weather Envoy	Internet Updates	View downloaded data on your own weather website and be part of the WeatherLinkIP community.	6510X	\$25
Mac OS X v 10.1 or above, Intel Mac Compatible	6520	\$165	Vantage Pro2, Vantage Vue or Weather Envoy	General Purpose	Does not log data from leaf wetness, soil moisture, solar radiation or UV sensors. Does not include Citizen Weather Observer or GLOBE capabilities. May not be used with E-Mail/ Phone Alert or Agricultural/Turf Management Modules.	6520X	\$25

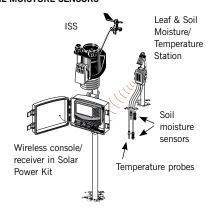
#### **WIRELESS VANTAGE PRO2**

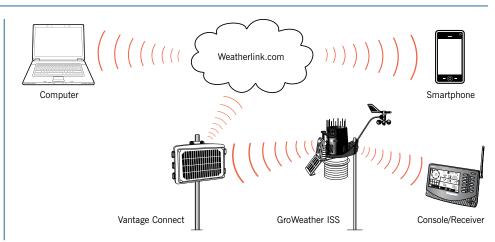




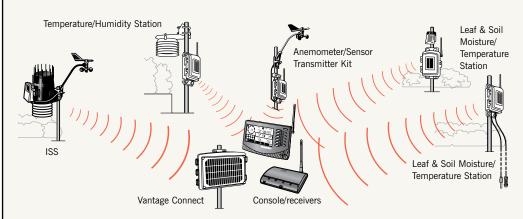


## FIELD STATION SHOWING SOLAR POWER KIT & SOIL MOISTURE SENSORS





MAXIMUM NUMBER OF EACH TRANSMITTING STATION TYPE REPORTING TO CONSOLE/RECEIVERS (COMBINED TOTAL CANNOT EXCEED 8)												
Tunnamithing Station	Vantag	ge Pro2	Vanta	ge Vue	Weather Envoy	Envoy8X	Vantage Connect					
Transmitting Station	Shown	Logged	Shown	Logged	Logged	Logged ‡	Logged					
Integrated Sensor Suite (ISS)	1	1	1	1	1	8	1					
Anemometer/Sensor Transmitter Kit	1 *	1 *	1 *	1 *	1 *	8	1 *					
Leaf & Soil Moisture/Temperature Station	2 **	2 **	0	0	2 **	8	2 **					
Temperature Station	8	3 †	0	0	3 †	8	3 <sup>†</sup>					
Temperature/Humidity Station	8	2 †	0	0	2 †	8	2 †					



Each Vantage Pro2, Weather Envoy, Envoy8X 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 ISS, then the anemometer on the anemometer/sensor transmitter kit will not register.

## How Will You Use Your Weather Station?

Davis weather stations are used around the world to keep weather observers informed. While real user stories are highlighted in our Davis E-Newsletter, we've created a few examples to give you an idea of the many ways you can create the perfect weather system.

#### 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 consolewhile 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: \$725

#### The Professional Weather Watcher

He is serious about the weather. He wanted weather readings that could be reported to NOAA and CWOP. He chose the Vantage Pro2 system so that he could mount the anemometer on a 30 feet (nine meters) tower while keeping his rain and other sensors at six feet (two meters). He knew a Davis weather station would be durable—a very important fact because he lives where summers are hot, winters are snowy and the hurricane-force winds are a late summer highlight. He chose the Vantage Pro2 with 24-hour

> weather can do some serious damage, he wanted to help his community prepare for severe weather via his website and his ham radio, so he added WeatherLinkIP. He wanted to see his data in the living room as well as in his radio shack, so he added a Vantage Vue console. He also wanted to monitor the temperature of the pond that is 1500 feet (457,2 meters) from his back deck, so the latest addition to his system was a wireless Temperature/Humidity Station and a standard wireless repeater.

Fan-Aspirated Radiation Shield and added a Rain Collector Heater. Living where

- Separable sensors for greatest wind accuracy and professional siting
- Ability to add special-purpose stations
- UV and Solar sensors available
- Can download data from WeatherLinkIP for NOAA and CWOP reporting

#### THE PRO'S SYSTEM

Vantage Pro2 with 24-Hour Fan-Aspirated Shield, 6153

Mounting Tripod, 7716

Mounting Pole Kit, 7717

WeatherLinkIP, 6555

Rain collector heater, 7720 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: \$2,065

#### The Vintners

They found the perfect vineyard on a rolling hillside and sank their savings into the dream of raising grapes and producing award-winning wines. Even though their climate, with its foggy, cool summers, mild winters and infrequent frosts is ideal, they still have to make the daily weather-based decisions that determine the success—or failure—of their crop. They needed real-time data from their own vineyard's micro-climate, which happens to be miles from their office; miles from anything, in fact. They chose a Vantage Pro2 Plus Integrated Sensor Suite and installed Vantage Connect to bring that remote station's data right into their office via a cellular connection. They use WeatherLink software to log and store data to use in future growing seasons. They added a Wireless Leaf and Soil Moisture/Temperature Station with one leaf wetness sensor, one soil moisture sensor and one soil temperature probe. This allows them to gather ET data for irrigation decisions and use the Integrated Pest Management Module for Grapes to track potential pest and disease risk. They dream of expanding their vineyard and adding weather stations in remote fields. They need the durability, accuracy and update speed of Davis stations; and the flexibility to grow and add on to their system offered by Vantage Connect.

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

- Integrated Pest Management Module includes ALL grape pests
- WeatherLink data archives enhance this and future growing seasons



#### 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

Vantage Connect Service Plan with 15-minute update interval, 6634

Mounting tripod, 7716

#### ON THEIR WISH LIST

A really good growing season

PRICE AS SHOWN: \$2,725 ANNUAL SERVICE PLAN: \$179.40 VANTAGE CONNECT HARDWARE ONE-TIME ACTIVATION FEE: \$25

#### The Wind Researcher

She's a researcher overseeing graduate students who are studying wind energy. Her team needed wind data from several sites to see how wind moves through the campus. Her colleagues were also interested in temperature and humidity. She started with a Vantage Pro2 on the roof of the biology building, and wanted to add two Vantage Vue integrated sensor suites on buildings nearby. Rather than log data using three consoles, our researcher chose Envoy8X. She still uses her Vantage Pro2 console to follow the weather on the biology building. Adding the Envoy8X allows her to listen to any combination of eight integrated sensor suites and anemometers and use a WeatherLink data logger and the commercial grade database software included with Envoy8X to easily compile her data into one database. With Envoy8X, our researcher not only added the two Vantage

Vue integrated sensor suites, she installed five additional anemometers with Anemometer/Sensor Transmitting Kits. With data coming from around the campus, she added a long-range repeater so that all eight stations are logged by the one Envoy8X. Now she has one

 Track eight stations, including multiple anemometers and integrated sensor suites

Flexibility to handle radio transmission obstacles

database with data from all the anemometers plus the additional

sensor data from the three integrated sensor suites—just what her

- Envoy8X software with commercial grade database capabilities
- Ability to use third-party sensors

team needed.

Ability to add additional Envoy8Xs

#### THE RESEARCHER'S SYSTEM

Vantage Pro2, 6153

Envoy8X, 6318

WeatherLink Software, 6510USB

2 Vantage Vue Integrated Sensor Suites, 6357

5 Anemometer/Sensor Transmitting Kits, 6332

5 Anemometers, 6410

Long-Range Repeater, Solar-Powered, 7654

Omni Antenna, 7656

Yagi Antenna, 7660

#### ON HER WISH LIST

Another Envoy8X for more anemometers

PRICE AS SHOWN: \$3,815

#### Vantage HUMIDITY TEMPERATURE RΔIN WIND WITH OPTIONAL SENSORS Console **Features Dutside Temperature** Temperature (Extra) Rain Storm Amoun Temperature Direction of High Outside Humidity Rainfall Amount Humidity (Extra) nside Humidity Wind Direction Wind Speed Vantage Pro2 and Vantage Vue Heat Index Wind Chill Dew Point **UV MEDs** Vantage Pro2 only Inside 1 eaf \ Vantage Vue only Soil sec 10 sec Update Interval\* **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 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) End-of-15-Minute Period Readings End-of-Hour Period Readings • 15-minute Period Totals • Hourly Totals **Daily Totals** Monthly Totals Storm Totals (with start & end date) Yearly Totals 10-Minute Averages (2 min. for VV) Hourly Averages or Dominant • • Daily Averages or Dominant Monthly Averages or Dominant Yearly Averages One-Minute Highs Hourly Highs Daily Highs • • • Monthly Highs • • • Yearly Highs Hourly Lows Daily Lows • • • Monthly Lows Yearly Low



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

link in a network that joins together the makers and users of precision instruments.

intermediate service providers are the next

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 a Vantage Pro2 with NIST service, add \$200. For the cost of individual sensors, please contact

us for pricing.



Anemometers are wind-tunnel tested in our California factory.

		Vantage Vue	Vantage Pro2	USA Units			Metric Units	Except for rainfall, all v measured in US units o rounded to the nearest shown in the Resolution	f measure and metric unit n column.
Fun	ction	Va	۸a	RESOLUTION	RANGE	ACCURACY ±	RESOLUTION*	RANGE	ACCURACY ±
AL S	Evapotranspiration		•	0.01"	0 to 199.99"	5%	0,1 mm	0 to 1999,9 mm	5%
5	Growing Degree-Days		0	0.1 Degree-Day	Unlimited		0,1 Degree-Day	Unlimited	
AGRICULTURAL	Cooling/Heating Degree-Days	~	0	0.1 Degree-Day	Unlimited		0,1 Degree-Day	Unlimited	
3RIC	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
BARO	Three-Hour Trend	~	~	Slow ≥ 0.02" Hg Rapid ≥ 0.06" Hg	5-Position Arrow		Slow $\geq$ 0,5 mm (0,7 mb) Rapid $\geq$ 1,5 mm (2 mb)	5-Position Arrow	
	Inside Humidity	٧	~	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 ISS		~	1%	1% to 100%	2%	1%	1% to 100%	2%
IDI	Outside Humidity (T/H Sensors)		•	1%	1% to 100%	2%	1%	1% to 100%	2%
ниміріту	Outside Humidity (VP2 T/H Stations)		•	1%	1% to 100%	2%	1%	1% to 100%	2%
_ =	Inside Dew Point	0	0	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 ISS		~	1°F	-105° to +130°F	2°F	1°C	-76° to +54°C	1°C
LL.	Rainfall	>	~	0.01"	0 to 199.99"	4%	0,2 mm	0 to 6553 mm	4%
RAINFALL	Rate of Rainfall	V	<b>v</b>	0.01"/hr	0 to 96"/hr 0 to 40"/hr	5% ≤ 5"/hr	0,1 mm/hr	0 to 2438 mm/hr 0 to 1016 mm/hr	5% ≤ 127 mm/hr
3	Solar Radiation	1 W/m2 0 to 1800 W/m2 5% 1 W/m2		1 W/m2	0 to 1800 W/m2	5%			
	Solar Energy		0	0.1 Ly	1999.9 Ly	5%	0,1 Ly	1999,9 Ly	5%
SOLAR &	UV Dose		•	0.1 MEDs	0 to 199 MEDs	5%	0,1 MEDs	0 to 199 MEDs	5%
SO	UV Index		•	0.1	0 to 16	5%	0,1	0 to 16	5%
	Inside Temperature	~	~	0.1°F	+32° to +140°F	1°F	0,1°C	0° to +60°C	0,5°C
	Outside Temperature VUE	1		0.1°F	–40° to +150°F	1°F	0,1°C	-40° to +65°C	0,5°C
	Outside Temperature VP2 ISS		~	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
PERATURE	Soil or Water Temp (Temp Station)		•	1°F	-40° to +150°F	1°F	1°C	-40° to +65°C	1°C
ZAT!	Inside Heat Index	0	0	0.1°F	+30°F to +165°F	3°F	0,1°C	-1°C to +74°C	1,5°C
IPE	Outside Heat Index VUE	/		1°F	–40° to +165°F	3°F	1°C	-40° to +74°C	1,5°C
TEN	Outside Heat Index VP2 ISS		~	1°F	–40° to +165°F	2°F	1°C	-40° to +74°C	1°C
	Temp/Hum/Wind Index VUE	0		0.1°F	-110° to +165°F	4°F	0,1°C	-79° to +74°C	2°C
	Temp/Hum/Wind Index VP2 ISS		0	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 ISS		•	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 ISS on VP2		~	1°F	-110° to +135°F	2°F	1°C	–79° to +57°C	1°C
m	Time	~	~	1 minute	12/24 hours	8 sec/mo	1 minute	12/24 hours	8 sec/mo
TIME/ DATE	Date	>	~	month/day	Leap Year	8 sec/mo	day/month	Leap Year	8 sec/mo
	Sunrise & Sunset	1	~	1 minute	12 hours	1 minute	1 minute	24 hours	1 minute
	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	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	1				22,5°	16 compass points		
	Wind Run	0	0	0.01 miles 0.01 nautical miles	Unlimited	5%	0,01 kilometers	Unlimited	5%

<sup>✓</sup> Included

For complete specifications, visit our website at www.davisnet.com, then click on Support » Weather Support » Specification Sheets.

Intituded
 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.

<sup>\*</sup>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.

# Which sensors can you use with your transmitter?

See pages 11 and 23 for the maximum number of transmitters that can report to a single Vantage Pro2 console/receiver, Weather Envoy or Envoy8X.

•	Included Optional Maximum sensors for that transmitter		Vantage Vue Vantage Vue ISS	Vantage Pro2 Vantage Pro2 ISS	Vantage Pro2 with Fan-Aspira Vantage Pro2 ISS with Fan-As	6162 Vantage Pro2 Plus 6327 Vantage Pro2 Plus ISS	Vantage Pro2 Plus with Fan-Asp Vantage Pro2 Plus ISS with Fan-	6825 Vantage Pro2 with Solar Radis 24-Hour Fan-Aspirated Radiat	6345 Leaf Wetness & Soil Moisture/	6345CS Complete Soil Moisture/Ten	6372 Temperature Station	6382 Temperature/Humidity Station	6332 Anemometer/Sensor Transmitt
		Product No.	6250 1	6152	6153 \	6162	6163 \	6825	6345	6345	6372	6382	6332
	Integrated Rain Collector		•	•	•	•	•	•					
	Rain Collector	7852											•
	Integrated Anemometer		•										
	Detachable Anemometer	6410		•	•	•	•	•					•
	Integrated Temperature/Humidity		•	•	•	•	•	•				•	
ies	Stainless Steel Temperature Probe with 2-Wire Termination	6470							4	4			
ssor	Temperature Probe with RJ Connector*	6477											•
Accessories	Stainless Steel Temperature Probe with RJ Connector*	6475									•		•
and A	Temperature/Humidity Sensor with Radiation Shield	6830											•
ıs aı	Temperature/Humidity Sensor with 24-hour Fan-Aspirated Radiation Shield	6832											•
Options	Passive Radiation Shield	7714	•	•		•			•	•	•	•	•
	Daytime Fan-Aspirated Radiation Shield	7747		•		•						•	
Sensor	24-Hour Fan-Aspirated Radiation Shield				•		•	•					
Se	Solar Radiation Sensor	6450			•	•	•	•					•
	UV Radiation Sensor	6490			•	•	•	•					•
	Sensor Mounting Shelf for UV/Solar	6673			•	•	•	•					
	Leaf Wetness Sensor	6420							2	2			
	Soil Moisture Sensor	6440							4	4			
	Third-Party Sensors (reporting 0-3 volt DC, Envoy8X required)			•	•	•	•	•	•	•			•
*Can	also be used with Weather Envoy and Envoy8X to replace the internal temporal	erature se	ensor										

**WIRELESS TRANSMITTERS** 

irated Rad Shield Aspirated Rad Shield

rated Rad Shield

Can also be used with Weather Envoy and Envoy8X to replace the internal temperature sensor.

Current I	Jraw		Cı	urrent Dra	w in Milliamı	peres	Estim	ated Back	up Battery L	ife in Days*	80 Amp Hour 6-Volt Battery Life at Normal Temperatures					
& Battery		Lights	Lights	With Data Logger		Without			With Data Logger		With Data Logger					
		Off	On	Standard†	Streaming††	WeatherLinkIP	Data Logger	Standard†	Streaming††	WeatherLinkIP	Data Logger	Standard†	Streaming††	WeatherLinkIP		
Vantage Vue Console/Receive	er	1	160	1	3	101	9 months	9 months	3 months	2 days	9 years	9 years	3 years	30 days		
Wasala as Dar O	Wireless	1	160	1	3	101	9 months	9 months	3 months	2 days	9 years	9 years	3 years	30 days		
Vantage Pro2	Cabled	10	170	10	13	110	27 days	27 days	21 days	2 days	9 months	9 months	8 months	30 days		
\\/	Wireless	1	N/A	1	3	101	N/A	4 months	1 month	<1 day	N/A	9 years	3 years	30 days		
Weather Envoy	Cabled	10	N/A	10	13	110	N/A	10 days	8 days	<1 day	N/A	6 months	6 months	30 days		
	1 ID	N/A	N/A	1	N/A	N/A	N/A	4 months	N/A	N/A	N/A	9 years	N/A	N/A		
Envoy8X	4 IDs	N/A	N/A	1.6	N/A	N/A	N/A	2 months	N/A	N/A	N/A	4 years	N/A	N/A		
	8 IDs	N/A	N/A	2.5	N/A	N/A	N/A	1 month	N/A	N/A	N/A	2.7 years	N/A	N/A		

<sup>\*</sup>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

<sup>††6540</sup> APRS data logger, 6544 Alarm data logger, 6560 Irrigation data logger

**SYSTEMS & RECEIVERS** 

# Which transmitters can

	Willow transmitters can			WIRELESS										CABLED			
you use with your receiver?					ple		nield									ect	
See pages 11 and 23 for the maximum number of transmitters that can report to a single Vantage Pro2 console/receiver, Weather Envoy or Envoy8X.					Pro2 with Fan-Aspirated Rad Shield		6163 Vantage Pro2 Plus with Fan-Aspirated Rad Shield	/o		6620, 6621 or 6622 Vantage Connect	only	only:			Envoy	6621C or 6622C Cabled Vantage Connect	
<ul> <li>Included</li> </ul>					ith Fa	sn	s with	er Envoy		Vanta	Console only	onsole		Plus	er En	22C C	
Optional			Vue	Pro2	102 wi	Pro2 Plus	2 Plu	Weather		5622	ne Coi	102 CC	Pro2	Pro2	Cabled Weather	or 662	
Included but additional can be added			age Vı	age Pr	age Pr	age Pr	ge Prc	less W	y8X	1 or (	Vantage Vue	age Pr	itage I	ntage	bled \	21C	
			Vantage	Vantage F	Vantage I	Vantage	Vanta	Wireless \	Envoy8X	, 662		6312 Vantage Pro2 Console only	52C Vantage Pro2	6162C Vantage Pro2 Plus		C, 66	
		Product No.	6250	6152	6153	6162	6163	6316	6318	6620	6351	6312	6152	6162	6316C	6620C, (	
Vantag	ge Vue Console	6351		7.	•	•	•	•			•	•					
Vantag	ge Vue ISS	6357	•					•	•	•	•	•					
Wirele	ess Vantage Pro2 Console	6312	•		7.	7.	7.	7.			•	•					
Wirele	ess Vantage Pro2 ISS	6322		•				•	•	•	•	•					
Wirele	ess Vantage Pro2 ISS with 24-Hour Radiation Shield	6323			•			•	•	•	•	•					
Wirele	ess Vantage Pro2 ISS with UV-Solar	6327				•		•	•	•	•	•					
Wirele	ess Vantage Pro2 ISS with 24-Hour Radiation Shield & UV Solar	6328					•	•	•	•	•	•					
Wirele	ess GroWeather ISS with Solar Radiation Sensor	6825						•	•	•	•	•					
Wirele Wirele Complete Complete Wirele	ess Weather Envoy	6316	•	•	•	•	•	•			•	•					
Wirele	ess Leaf & Soil Moisture/Temperature Stations	6345		•	•	•	•	•	•	•		•					
Compl	elete Soil Moisture/Temperature Station	6345CS		•	•	•	•	•	•	•		•					
Wirele	ess Temperature Station	6372		•	•	•	•	•	•	•		•					
Wirele	ess Temperature/Humidity Station	6382		•	•	•	•	•	•	•		•					
Anemo	ometer/Sensor Transmitter Kit	6332		•*	•*	•*	•*	•*	•	•	•	•					
Standa	ard Wireless Repeater, AC-Powered	7626	•	•	•	•	•	•	•	•	•	•					
Standa	ard Wireless Repeater, Solar-powered	7627	•	•	•	•	•	•	•	•	•	•					
Long-F	Range Wireless Repeater, Solar-Powered	7654	•	•	•	•	•	•	•	•	•	•					
Solar I	Power Kit for Wireless (includes 1.4 amp hour 6-volt battery)	6614	•	•	•	•	•	•			•	•					
Cabled	d Weather Envoy	6316C													•		
Cabled	d Vantage Pro2 ISS	6322C											•		•	•	
Capled Cabled Cabled	d Vantage Pro2 ISS with UV & Solar	6327C												•	•	•	
Cabled	d GroWeather ISS with Solar Radiation Sensor	6825C													•	•	
Heavy	Duty Solar Power Kit (includes 12 amp hour 6-volt battery) **	6612	•	•	•	•	•	•	•		•	•	•	•	•	•	
Rain C	Collector Heater	7720		•	•	•	•						•	•			
<b>S</b> Mount	ting Tripod	7716	•	•	•	•	•			•			•	•		•	
Mount Mount	ting Pole Kit	7717	•	•	•	•	•			•			•	•		•	
	Solar Panel Kit ***	6616								•						•	
Extra S Univer	rsal Shelter	6618	•	•	•	•	•	•	•		•	•	•	•	•	•	
Daytin	me Fan-Aspirated Radiation Shield	7747		•		•							•	•			
Senso	or Mounting Shelf	6673		•	•	•	•						•				

Only when used as a separate transmitter for your station's anemometer.

<sup>\*\*</sup> Can also be used on wireless stations when more power is needed.
\*\*\* Can be paired with 6612 and 6614.

# 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 guvs 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 variablebarometric 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 Havward, 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.

CarChip Connect's cellular power sends detailed car information in real time to the web

In addition to quality Weather products, Davis also offers Fleet Management products as well. Our CarChip family of vehicle monitors fulfills the most simplistic to the most complicated vehicle monitoring and performance needs.

With CarChip Connect, your car may be out of sight, but it's never out of range. Whether it's carrying your business reputation or the precious cargo of your family, you'll be able to see when, where and how your car is driven in real time.

Simply plug the small yet powerful, GPS telematics unit into the vehicle's OBD II (onboard diagnostics) port and log on to a secure, private, user-friendly website. You'll see your vehicle's location, its speed, driving routes, even engine diagnostic and performance data. You can also set custom alerts to notify you of driver speed, hard or extreme braking or cornering, going in or out of a pre-defined area, and when the check engine light is on.

Requires service agreement. To learn more, please visit www.carchipconnect.com.

8351 CarChip Connect \$295 + monthly service plan fee



View your vehicle's location in real time from anywhere you have internet service.

**EXTENSION CABLES** 7876-008 8' (2,4 m) Our Standard 4-Conductor Extension Cables include a coupler kit (protective shell; cable coupler; and five 7876-040 40' (12 m) waterproof, silicone-filled, crimp-style splice connectors) for joining two cables together, indoors or out. Use the 7876-100 100' (30 m) \$40 chart below to determine maximum cable lengths. 7876-200 200' (61 m) \$70 Cable Use Product Cable Length Cable Length Wireless Vantage Pro2 Anemometer to Integrated Sensor Suite 40' (12 m) 240' (73 m)\* Anemometer to Integrated Sensor Suite 40' (12 m) 240' (73 m)\* Cabled Vantage Pro2 Console to Integrated Sensor Suite 100' (30 m) 1000' (300 m) Cabled Vantage Pro2 ISS with Cabled Vantage Connect Vantage Connect to Integrated 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) 2' (0,6 m) 125' (38 m) Sensor to Integrated Sensor Suite UV Sensor (6490) Sensor to Integrated Sensor Suite 2' (0,6 m) 125' (38 m) Stainless Steel Temperature Probe with RJ Connector (6475) Probe to Wireless Temperature Station, Weather Envoy, Envoy8X, or 25' (7,6 m) 200' (61 m) Anemometer/Sensor Transmitter Kit Temperature Probe with RJ Connector (6477) 40' (12 m) Leaf Wetness Sensor (6420) Sensor to Wireless Leaf & Soil Moisture/Temperature Station 200' (61 m) Anemometer (6410) Sensor to Integrated Sensor Suite or Anemometer/Sensor Transmitter Kit 40' (12 m) 240' (73 m)\* Rain Collector (standalone, 7852) 40' (12 m) 900' (270 m) Collector to Integrated Sensor Suite or Anemometer/Sensor Transmitter Kit Rain Collector with Mountable Base (7857) Collector to Integrated 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)

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

<sup>\*</sup> 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).

<sup>\*\*</sup> WeatherLink USB: Extension cables may be purchased from a computer supplier.



Davis Instruments 3465 Diablo Avenue Hayward CA 94545-2778 (510) 732-9229

ISO 9001 CERTIFIED COMPANY

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### VANTAGE VUE AND VANTAGE PRO2 WEATHER STATIONS

# The Way to Watch Weather Tough • Accurate • Affordable

• 1,000 feet (300 meters) wireless range (3X farther than competing stations)

• 2.5 second update
(up to 10X faster than the competition)

 Post your weather to the Internet without a PC Join the WeatherLink Network

 Transmit and receive data via cellular connection with Vantage Connect



