

## Vantage Pro

Vantage Pro® weather stations are available in both wireless and cabled versions. All include our innovative integrated sensor suite, which combines our rain collector, temperature and humidity sensors, and anemometer all into one package—making setup easier than ever and improving performance and reliability. Customize your weather station by adding consoles or one or more of the special-purpose stations shown on the following pages. Up to eight wireless transmitters may report to a single console. *Because regulations vary, wireless stations may not be available outside the USA.*

### Flexible mounting options let you customize the installation to suit your needs.



Use our optional tripod to mount the integrated sensor suite on a rooftop ...



... or in a field, with or without the console inside our Complete System Shelter.



Separate the anemometer from the rain collector to mount it on a fence post up to 40' (12 m) away...



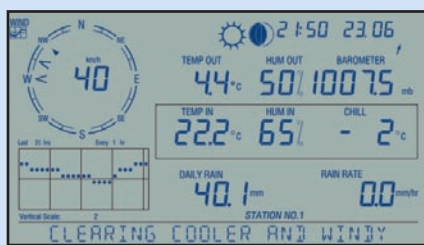
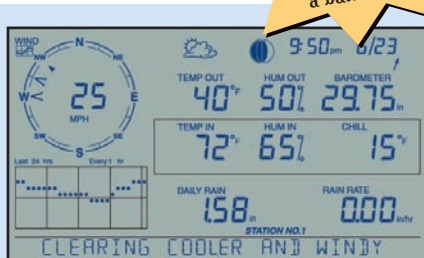
... or even further with optional Anemometer Transmitter Kit.

### The GLOBE Program



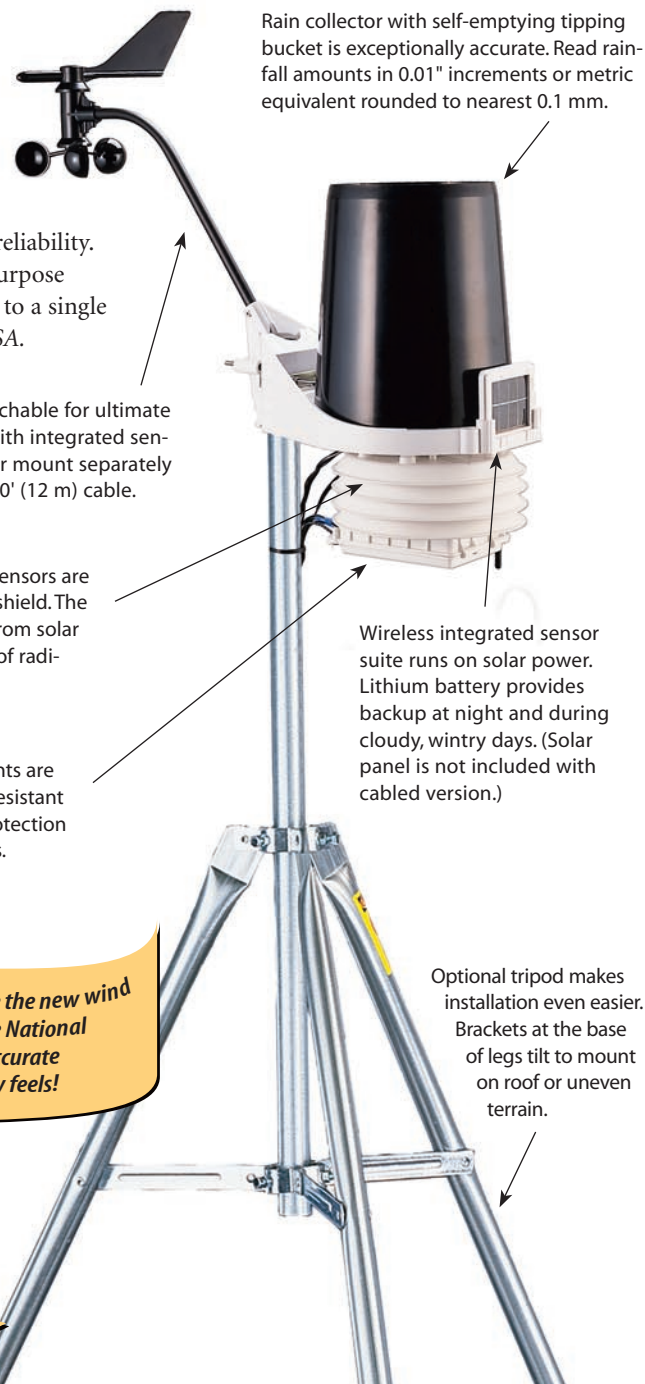
Now, with a new protocol developed just for Davis weather stations, students from grade school through high school can participate in the worldwide GLOBE program by taking and reporting scientifically-valid environmental measurements. For more information on GLOBE, visit our website or [www.globe.gov](http://www.globe.gov).

*GLOBE, The GLOBE Program, and the GLOBE logo are trademarks of the U.S. Government. Use of these trademarks and certification by this company that its products conform to specifications of The GLOBE Program do not imply endorsement of this company or its products by the U.S. Government.*



All Vantage Pro consoles use the new wind chill formula adopted by the National Weather Service, for more accurate readings of how cold it really feels!

Switch between metric and U.S. units of measure at the push of a button!



Rain collector with self-emptying tipping bucket is exceptionally accurate. Read rainfall amounts in 0.01" increments or metric equivalent rounded to nearest 0.1 mm.

Anemometer is detachable for ultimate flexibility—mount with integrated sensor suite as shown, or mount separately using the included 40' (12 m) cable.

Temperature and humidity sensors are located inside the radiation shield. The shield protects the sensors from solar radiation and other sources of radiated and reflected heat.

Electronic components are housed in weather-resistant shelter for added protection against the elements.

Wireless integrated sensor suite runs on solar power. Lithium battery provides backup at night and during cloudy, wintry days. (Solar panel is not included with cabled version.)

Optional tripod makes installation even easier. Brackets at the base of legs tilt to mount on roof or uneven terrain.

#### All Vantage Pro stations include:

- Console with AC-power adapter. Wireless console may also be run using three C batteries. Batteries should also be added to cabled console for backup during power outages.
- Integrated sensor suite with rain collector, temperature and humidity sensors, and anemometer.
- 40' (12 m) anemometer cable.
- Mounting hardware.

#### Vantage Pro Plus stations also include:

- Solar radiation sensor.
- UV radiation sensor.
- Sensor mounting shelf.

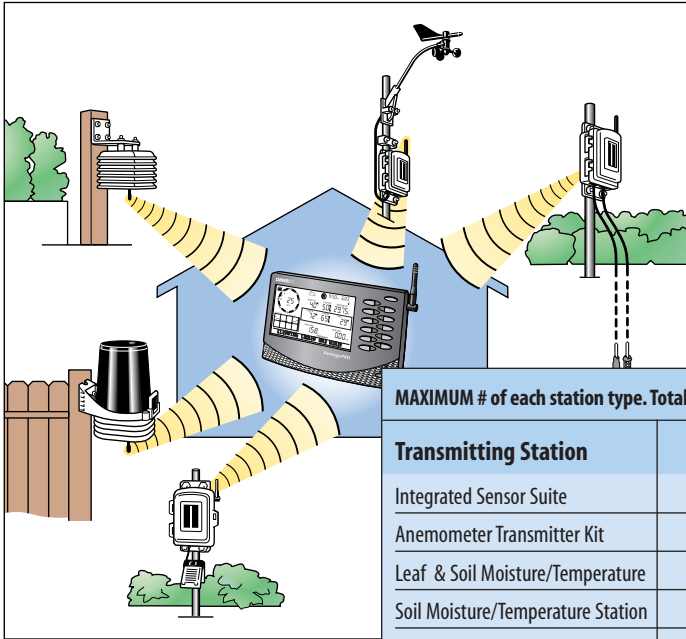
#### Cabled stations also include:

- 100' (30 m) cable from console to integrated sensor suite.

#### Wireless stations also include:

- Transmitter (in integrated sensor suite or weather-resistant shelter) and receiver (in console). Range is up to 400' (120 m) outdoors, line of sight. Typical range through walls under most conditions is 75 to 150' (23 to 46 m).
- Solar panel and lithium battery for powering transmitter.

**B**uild your own customized weather station by adding one or more of the special-purpose stations shown on the following pages. Each Vantage Pro console/receiver can receive data from up to eight different transmitting stations. Start with one of our wireless Vantage Pro or Vantage Pro Plus stations (which include both the console and the integrated sensor suite), and add up to seven additional Temperature or Temperature/Humidity Stations. Or buy the Vantage Pro console alone (without the integrated sensor suite), and add up to eight special-purpose stations of your choice.



Each Vantage Pro console/receiver can receive data from up to eight different transmitting stations.

MAXIMUM # of each station type. Total number of stations cannot exceed 8.

Transmitting Station	Shown on Console	Logged by WeatherLink
Integrated Sensor Suite	1	1
Anemometer Transmitter Kit	1	1
Leaf & Soil Moisture/Temperature	1	1
Soil Moisture/Temperature Station	1	1
Temperature Station	8	3*
Temperature/Humidity Station	8	2*

\* WeatherLink will log a maximum of 3 Temperature Stations or 1 Temperature Station and 2 Temperature/Humidity Stations.

add up to seven additional Temperature or Temperature/Humidity Stations. Or buy the Vantage Pro console alone (without the integrated sensor suite), and add up to eight special-purpose stations of your choice.



Use the console on a desk ...



... or mount it on a wall.



See page 19 for extension cables.

### Vantage Pro®

Our most popular station. Choose the wireless model for:

- Easiest installation.
- Ability to add additional consoles or special-purpose stations.
- Reduced risk of damage from lightning strikes.

Choose the cabled model for:

- Most economical installation.
- Field installation using our Complete System Shelter.
- Installation in areas with high RF interference.

6150 Wireless Vantage Pro  
6150C Cabled Vantage Pro



See page 15 for details on UV and solar radiation sensors.

### Vantage Pro® Plus

Includes all the features of Vantage Pro, plus everything you need for reading:

- UV index and dose.
- Solar radiation.
- Evapotranspiration.

UV and solar radiation sensors are pre-installed on sensor mounting shelf.

6160 Wireless Vantage Pro Plus  
6160C Cabled Vantage Pro Plus



## Vantage Pro

Our temperature sensors have an accuracy of  $\pm 1^\circ\text{F}$  ( $0.5^\circ\text{C}$ ), and the accuracy of our outside humidity sensors is  $\pm 3\%$ . In real-life situations, though, solar radiation and the reflected heat from rooftops or pavement can result in greater variances. The radiation shields included with our standard Vantage Pro and Pro Plus models provide considerable protection, but for even better accuracy—especially on warm, sunny days with little or no wind—choose one of our fan-aspirated stations. The motor-driven fan draws air through the sensor chamber and exhausts it through the top of the shield. With this improved air flow comes improved temperature and humidity readings. The effects of radiated and reflected heat are minimized, and conditions inside the radiation shield come as close as possible to the ambient air conditions.

*In side-by-side testing, our radiation shields beat or came close to matching the performance of equivalent models costing as much as seven times more. For details, see our study at [www.davisnet.com/links](http://www.davisnet.com/links).*

### Vantage Pro® & Pro Plus with 24-Hour Fan-Aspirated Radiation Shield

Includes all the features of the Vantage Pro or Pro Plus station shown on the preceding pages, plus our patented fan-aspirated radiation shield. For the highest possible accuracy, the motor-driven fan draws air through the sensor chamber, 24 hours a day, 7 days a week. Air flow across the sensors is 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 air flow is 280 feet per minute (1.4 m/s).



6151 Wireless Vantage Pro with Solar-Powered Fan-Aspirated Radiation Shield

6151C Cabled Vantage Pro with AC-Powered Fan-Aspirated Radiation Shield

6161 Wireless Vantage Pro Plus with Solar-Powered Fan-Aspirated Radiation Shield

6161C Cabled Vantage Pro Plus with AC-Powered Fan-Aspirated Radiation Shield



**New!**



### Daytime Fan-Aspirated Radiation Shield Kit

An economical solution for adding the benefits of fan aspiration to your wireless or cabled Vantage Pro or Pro Plus. Half the cost of our other fan-aspirated radiation shields, but nearly 75% as effective in reducing the effects of daytime radiation. Solar-powered fan runs during the day. Since there is no backup battery, the fan will cease running when night falls and the effects of radiation are less. Kit includes fan, solar panel, additional radiation shield plates, and hardware, as shown in inset photo. Larger photo shows the kit as installed on a wireless Vantage Pro. For use with later-model Vantage Pro or Pro Plus stations with round radiation shield plates; not for use with earlier models with rectangular plates.

7745 Daytime Fan-Aspirated Radiation Shield Kit

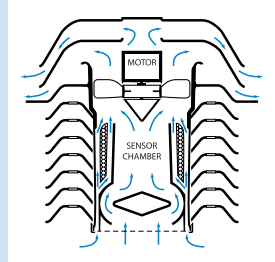


### Wireless Temperature/Humidity Station with 24-Hour Fan-Aspirated Radiation Shield

Solar-powered station includes temperature and humidity sensors inside fan-aspirated radiation shield. Electronic components and battery are housed inside weather-resistant shelter for added protection against the elements. To view the data, add a wireless Vantage Pro console/receiver, Weather Echo or Echo Plus, or Weather Envoy and WeatherLink.



6385 Wireless Temperature/Humidity Station with Fan-Aspirated Radiation Shield



### 24-Hour Fan-Aspirated Radiation Shield

Motor-driven fan draws air through the sensor chamber.

“ Sending kudos regarding your radiation shield. I bought a competing company's wireless station a year and a half ago. The large problem I had with the station was that I could not get any type of precision in measuring the ambient outside temp. After a summer of moving the sensor here and there, I was still left scratching my head at the data most of the time. With your radiation shield I've been collecting consistent, believable temps throughout the fall months. Thank you for a product that does what is advertised. ”

Ethan, Carson City, NV