

# Vantage Pro2: Professional and rugged.

Vantage Pro2™ offers the professional weather observer and the serious weather enthusiast rugged performance and a wide range of options and sensors. You'll get your own local forecast, highs and 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 feet (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. It can be customized with a range of add-on options, such as solar and UV radiation sensors, soil moisture stations, and long and short-range repeaters.

## Features:

- **Large, backlit 3½" × 6" (9 × 15 cm) LCD screen**
- **Options available for soil moisture, short and long-range repeaters, and much more**
- **Fast updates every 2.5 seconds (10x faster than the competition)**
- **Optional WeatherLink data logger and software offer additional analyses in a variety of versions**
- **Wireless transmission from station to console up to 1,000 ft. (300 m) (3x farther than the competition)**

### 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, part sun, rain, or snow. 12-hour icon forecast plus 24–48 hour ticker tape forecast at bottom of console screen.

### 3. MOON

Track the eight phases of the moon, from new to full.

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

### 6. BAROMETER

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

### 7. FIXED DISPLAY

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

### 8. 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.)

### 9. RAIN

Umbrella icon appears when it is currently raining.

View daily rain or rain for a storm.

View monthly or yearly rainfall, rain rate, evapotranspiration, or intensity of solar radiation.

### 10. STATUS INDICATOR

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

### 11. 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.

### 12. TICKER-TAPE DISPLAY

Provides expanded forecast details and additional information on current conditions. Displays more than 100 different messages!

### 13. GRAPHS

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

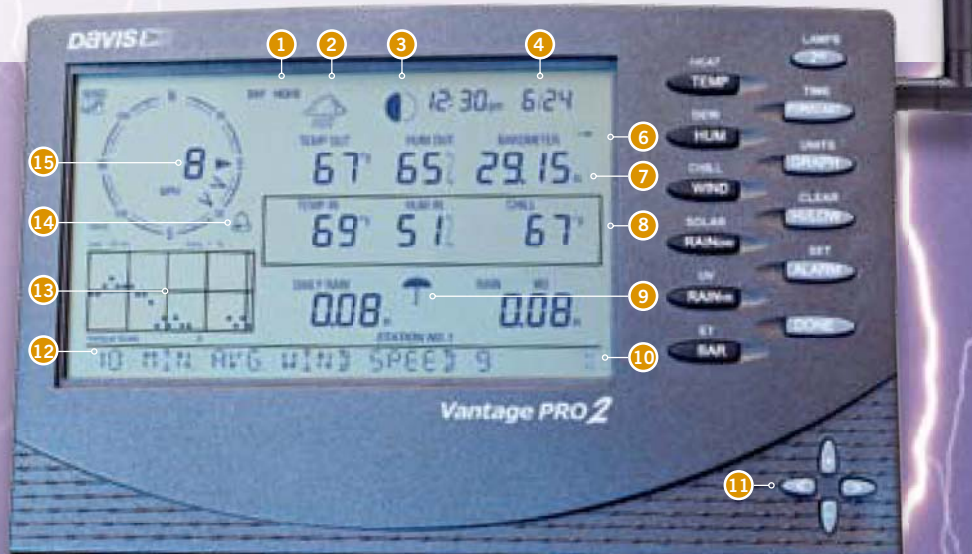
Vertical scale changes depending on what you are graphing.

### 14. ALARMS

Set more than 70 alarms for multiple functions simultaneously.

### 15. WIND

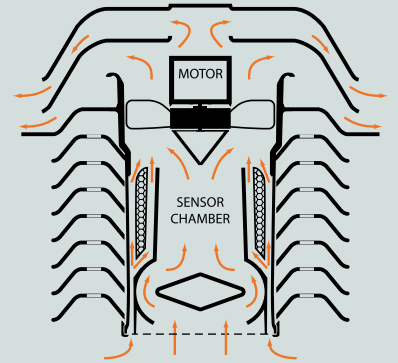
Compass rose with 16 points shows current and dominant wind direction. Inside compass rose, view wind direction to 1° resolution, or view wind speed.



# The ultimate in versatility and options.

All Vantage Pro2 stations include a console and a versatile integrated sensor suite that combines 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 pages 10 and 11. Vantage Pro2 weather stations are available in both wireless and cabled versions.

Vantage Pro2 Stations (See page 6 for models.)



## 1. RAIN COLLECTOR

The Vantage Pro2 rain collector meets the collection area guidelines of the World Meteorological Organization. Reads rainfall amounts in 0.01" or 0.2 mm increments.

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

Optional anemometer 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. 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 150 miles per hour (241 km/h).

## 3. OPTIONAL MOUNTING POLE

One of several installation options. For more, including our mounting tripod, see page 7.

## 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

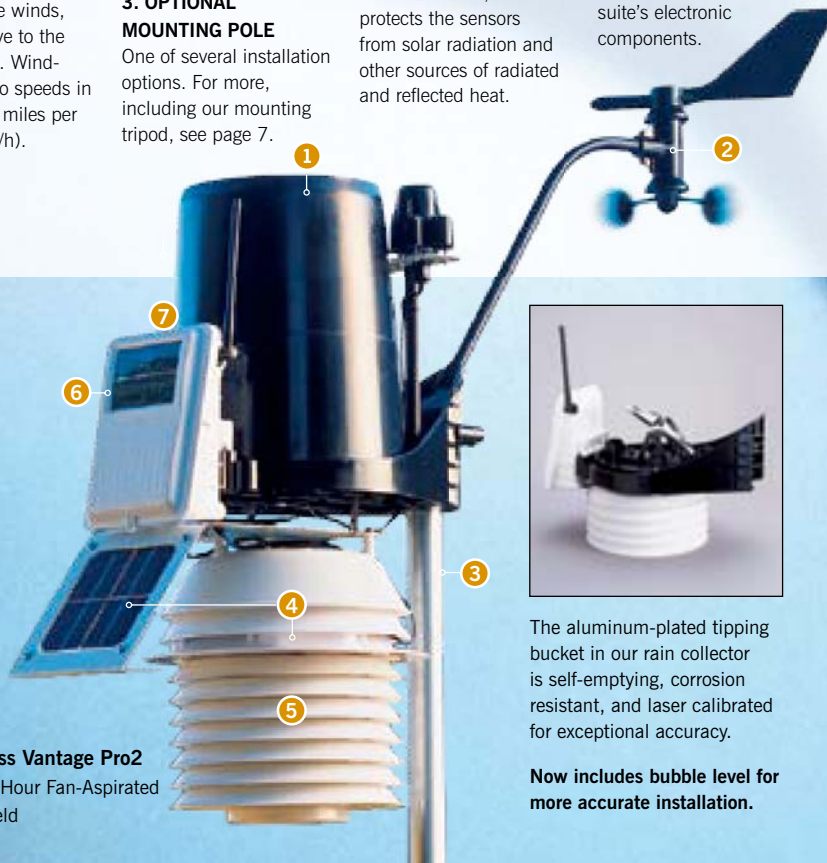
Powers wireless station during the day and super capacitor for night operation. Lithium battery provides backup on cloudy, wintry days. (Solar panel is not included with cabled version.)

## 7. WEATHER-RESISTANT SHELTER

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

## 24-Hour Fan-Aspirated Radiation Shield

Models 6153 and 6163 include our patented 24-hour fan-aspirated radiation shield for maximum accuracy of temperature and humidity readings. A motor-driven fan draws air through the sensor chamber 24 hours a day, 7 days a week. Airflow 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 airflow is 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 sunshine 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.



The aluminum-plated tipping bucket in our rain collector is self-emptying, corrosion resistant, and laser calibrated for exceptional accuracy.

Now includes bubble level for more accurate installation.



6152 Wireless Vantage Pro2

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

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



Vantage Vue

Vantage Pro2

Vantage Pro2 Plus

<p>Davis accuracy in a self-contained, easy-to-install system.</p> <p>Includes solar-powered transmitter.</p>	<p>Create a customized professional station with a wide range of options and sensors. Solar-powered transmitter and detachable anemometer.</p> <p>Choose a cabled station for most economical installation. Ideal for areas where lightning risk is minimal. Choose wireless for easiest installation, additional sensor options, and reduced risk of lightning damage.</p>			<p>24-hour fan aspiration model achieves maximum accuracy of temperature &amp; humidity readings by circulating the air. Ideal for arid climates.</p> <p>Includes UV &amp; solar radiation sensors.</p>		
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<p>The Davis line of Vantage weather stations are built to provide a full weather system. To maximize your weather watching, a variety of additional sensors and stations are available to make your weather station even more comprehensive.</p>	6250 <b>Wireless</b>	6152C <b>Cabled</b>	6152 <b>Wireless</b>	6153 <b>Wireless w/Fan</b>	6162C <b>Cabled</b>	6162 <b>Wireless</b>	6163 <b>Wireless w/Fan</b>
<b>CONSOLE</b>							
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	•						
<b>INTEGRATED SENSOR SUITE</b>							
Rain collector, temperature and humidity sensors and anemometer	•	•	•	•	•	•	•
UV and Solar Radiation Sensors		Optional	Optional	Optional	•	•	•
<b>DATA TRANSFER</b>							
100' (30 m) cable		•			•		
Solar-powered transmitter with battery backup	•		•	•		•	•
<b>RADIATION SHIELD</b>							
Standard radiation shield	•	•	•		•	•	
Daytime fan-aspirated radiation shield		Optional	Optional		Optional	Optional	
24-hour fan-aspirated radiation shield				•			•
<b>ADD-ONS</b>							
Additional consoles to view data in more than one location	Optional		Optional	Optional		Optional	Optional
Special-purpose leaf wetness or soil moisture stations available to calculate evapotranspiration			Optional	Optional		Optional	Optional
Wireless temperature station			Optional	Optional		Optional	Optional