COMPONENTS NOT SHOWN TO SCALE

1. Solar Radiation Sensor

Measures the intensity of solar irradiance, enabling display of incident power (Watts per square meter) and cumulative energy (Langleys). Diffuser element and housing are designed specifically for accurate cosine response. Silicon photo diode provides a good match to solar spectrum. To mount next a rain collector use the Sensor Mounting Shelf. Use the Universal Mounting Bracket for other applications. Includes 2 ft. (0,6 m) cable.

6450 Solar Radiation Sensor

2. UV Sensor

Measures the intensity of the sunburning portion of the UV spectrum (UVA and UVB), closely matching the Erythema Action Spectrum. Allows you to display UV Index, dose rate and daily and accumulated dose. The comb structure provides improved cosine response accuracy at zenith angles up to 90 degrees. To mount next a rain collector use the Sensor Mounting Shelf. Use the Universal Mounting Bracket for other applications. Includes 2 ft. (0,6 m) cable.

6490 UV Sensor
PATENT PENDING

3. Sensor Mounting Shelf

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

6673 Sensor Mounting Shelf

4. NEW Universal Mounting Bracket

For mounting a solar radiation sensor, a UV sensor, or a radiation shield. Bracket is pre-drilled for easy mounting. Includes mounting hardware.
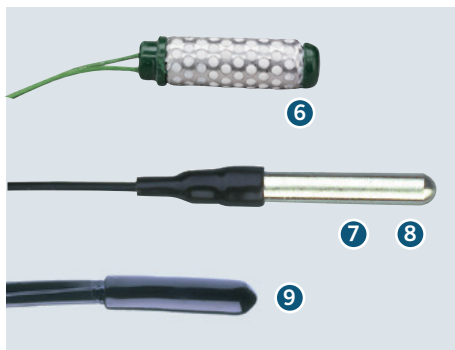
6670 Universal Mounting Bracket

5. Leaf Wetness Sensor*

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

6420 Leaf Wetness Sensor

6. Soil Moisture Sensor

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

6440 Soil Moisture Sensor

7. Stainless Steel Temperature Probe with 2-Wire Termination

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

6470 Stainless Steel Temperature Probe with 2-Wire Termination

8. Stainless Steel Temperature Probe with RJ Connector*

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

6475 Stainless Steel Temperature Probe with RJ Connector

9. Temperature Probe with RJ Connector*

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

6477 Temperature Probe with RJ Connector

10. Anemometer*

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

6410 Anemometer

11. AeroCone® Rain Collector

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

6463 Rain Collector

12. AeroCone® Rain Collector with Mountable Base

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

6465 Rain Collector with Mountable Base

13. Turbo Meter™

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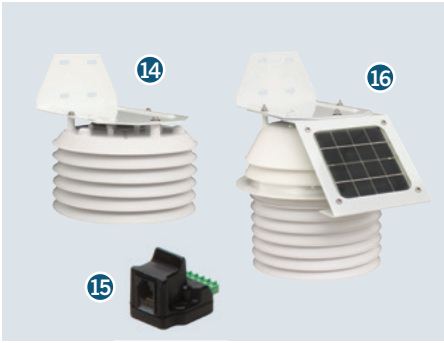
271 Turbo Meter

14. Temperature/Humidity Sensor with Radiation Shield*

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

6830 Temperature/Humidity Sensor with Radiation Shield NIST EM

15. RJ Connector Node Adaptor

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

6860 RJ Connector Node Adaptor EM

16. Temperature/Humidity Sensor with 24-hour Fan-Aspirated Radiation Shield*

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

6832 Temperature/Humidity Sensor with 24-hour Fan-Aspirated Radiation Shield NIST EM

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

1. Solar Power Kit

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

6614 Solar Power Kit

2. Heavy-Duty Solar Power Kit

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

6612 Heavy Duty Solar Power Kit

3. Extra Solar Panel Kit

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

6616 Extra Solar Panel Kit EM

4. Universal Shelter

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

6618 Universal Shelter

5. NEW Shelter Angle Bracket

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

6671 Shelter Angle Bracket EM

6. A/C Charger Kit

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

6710 A/C Charger Kit EM

7. Rain Collector Heater

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

7720 Rain Collector Heater (no rain collector)

7 & 7a. Rain Collector and Heater

For sensor suites with an AeroCone, the old style rain collector shown above will have to be installed to use the Rain Collector Heater. In addition to components listed above (in 7), this product includes the rain collector, debris screen and bird spikes.

7721 Rain Collector and Heater

8. Radiation Shield

Received 5-star rating from the World Meteorological Organization. Protects temperature sensors from solar radiation and radiated or reflected heat sources. Multi-plate construction for maximum airflow; use with Wireless Temperature Station or Leaf & Soil Moisture/Temperature Station and all temperature sensors.

7714 Radiation Shield Assembly required.

9. USB Power Cord

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

6627 USB Power Cord

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