

More special-purpose stations

Anemometer Transmitter Kit

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

6332 Anemometer Transmitter Kit



Wireless Temperature/Humidity Station (Solar-powered)

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

6382 Wireless Temperature/Humidity Station

NIST



Wireless Temperature Station (Battery-powered)

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

6372 Wireless Temperature Station

NIST



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

For longer distances or to improve reception in troublesome areas, add one or more wireless repeaters. Use repeaters in a daisy chain, retransmitting from a single Vantage Pro2 or Vantage Vue sensor suite, or special-purpose station. You can also build a network of repeaters and wireless stations, with some repeaters listening to multiple stations, each with their own unique ID. For use with any Davis wireless transmitter and receiver.

Long-Range Wireless Repeaters

In our testing, we achieved an incredible four miles (6,4 km) of transmission distance using two of our long-range repeaters with Yagi antennas. Range varies depending on antenna height, the terrain and foliage, buildings, other man-made structures, and RF interference. Ideal for agricultural or research applications where long distances are an issue. This solar-powered model includes solar panel and lithium backup battery. Antennas are sold separately.

7654 Long-Range Repeater, Solar-Powered



Yagi

Omni

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.

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

* Dipole antennas are found on all Davis wireless weather stations and standard repeaters.

** Typical distance will be less. Outdoors, line of sight with minor obstructions or interference, typical distance is about 50–80% of the maximum. Through walls or in areas with high RF interference, typical distance may be as low as 20–40% of the maximum.

Antennas for Long-Range Repeaters

For use with our long-range repeaters. Each repeater requires two antennas: one to receive data, and another to retransmit it. Omni antennas transmit or receive in all directions. Yagi antennas transmit or receive from a single direction, but have a longer transmission distance. Mix and match to suit your needs using the table above.

7656 Omni Antenna

7660 Yagi Antenna

Standard Wireless Repeaters

Ideal for most applications, uses the same dipole antenna found on all of our wireless stations. Range is up to 1,000 ft. (300 m) outdoors, line of sight. Typical range through walls is 200 ft. to 400 ft. (60 to 120 m). Solar-powered model includes solar panel and lithium backup battery.



7627 Standard Wireless Repeater, Solar-Powered