



## Vantage Pro2™ Accessories

The Anemometer includes both wind speed and wind direction sensors. Rugged components stand up to hurricane-force winds, yet are sensitive to a light breeze. Includes sealed bearings for long life. The range and accuracy specifications of this unit have been verified in wind-tunnel tests (information available upon request). A Davis Anemometer reported wind speeds of 175 miles per hour before its tower collapsed during hurricane Andrew, 1992. Digital filtering, with time constant as specified below, is applied to wind direction measurements. In areas where icing of the anemometer is a problem, the included Anemometer Drip Rings deflect water from the joint between moving parts.

## General

Sensor Type	
Wind Speed . . . . .	Wind cups and magnetic switch
Wind Direction . . . . .	Wind vane and potentiometer
Attached Cable Length . . . . .	40' (12 m)
Cable Type . . . . .	4-conductor, 26 AWG
Connector . . . . .	Modular connector (RJ-11)
Maximum Cable Length . . . . .	240' (73 m)
Material	
Wind Vane and Control Head . . . . .	UV-resistant ABS
Wind Cups . . . . .	Polycarbonate
Anemometer Arm . . . . .	Black-anodized aluminum
Dimensions (length x width x height) . . . . .	15.0" x 1.5" x 18.0" (381 mm x 38 mm x 457 mm)
Weight . . . . .	1 lbs. 4 oz. (1.332 kg)

## Sensor Output

### Wind Direction

Display Resolution . . . . .	16 points (22.5°) on compass rose, 1° in numeric display
Accuracy . . . . .	±4°
Update Interval . . . . .	2.5 to 3 seconds (depending on transmitter ID)

### Wind Speed

Resolution and Units . . . . .	Measured in 1 mph. Other units are converted from mph and rounded to nearest 1 km/h, 0.1 m/s, or 1 knot
Range (large wind cups, included) . . . . .	2 to 150 mph, 2 to 130 knots, 1 to 67 m/s, 3 to 241 km/h
Range (small wind cups; optional, not included) . . . . .	3 to 175 mph, 3 to 150 knots, 1.5 to 79 m/s, 5 to 282 km/h
Update Interval . . . . .	Instant Reading: 2.5 seconds, 10-minute Average: 1 minute
Accuracy (large wind cups, included) . . . . .	±2 mph (2 kts, 3 km/h, 1 m/s) or ±5%, whichever is greater
Accuracy (small wind cups; optional, not included) . . . . .	±3 mph (3 kts, 5 km/h, 1.5 m/s) or ±5%, whichever is greater
Maximum Cable Length . . . . .	240' (73 m). Maximum wind speed reading decreases as length of cable from Anemometer to ISS increases. At 140' (42 m), maximum speed is 135 mph (60 m/s). At 240', the maximum is 100 mph.

## Package Dimensions

Product #	Package Dimensions (Length x Width x Height)	Package Weight	UPC Codes
6410	17.75" x 10.50" x 3.00" (451 mm x 267 mm x 76 mm)	2.0 lbs. (.9 kg)	011698 00237 5