

For Monitor and Wizard Stations

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 stainless-steel bearings for long life. The range and accuracy specifications have been verified in wind-tunnel tests. Digital filtering, with time constant as specified below, is applied to wind direction measurements.

General

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Sensor Type	
Wind Speed	Solid state magnetic sensor
Wind Direction	Wind vane and potentiometer
Attached Cable Length	40' (12 m)

Note:

Cable lengths longer than 140' (42 m) between sensors and console may artificially limit wind speed readings. That is, beyond that length, maximum recordable wind speed decreases as cable length increases. For example, with a length of 140' (42 m), the maximum recordable speed exceeds 175 mph. At 240' (72 m), however, the maximum recordable speed drops to less than 140 mph. Below that upper limit, however, the anemometer's accuracy is not affected.

4-conductor 26 AWG

Cable Type	4-conductor, 20 AVIO
Connector	Modular connector (RJ-11)
Recommended Maximum Cable Length	140' (42 m) Sensor to Console
Material	
Wind Vane and Control Head	UV-resistant ABS
Wind Cups	Polycarbonate
Anemometer Arm	Black-anodized aluminum
Dimensions	18.5" long x 7.5" high x 4.75" wide (470 mm x 191 mm x 121 mm)
Weight	2 lbs. 15 oz. (1.332 kg)

Console Data

Cable Type

Note: These specifications apply to sensor output as converted by Davis Instruments weather station consoles.

. 1 to 200 mph, 1 to 173 knots, 0.5 to 89 m/s, 1 to 322 km/h
. 0° to 360° or 16 compass points
. 0 to 1999.9 miles (1999.9 km)
. ±2 mph (2 kts, 3 km/h, 1 m/s) or ±5%, whichever is greater
. ±7°
. ±5%
. 1 mph (1 knot, 0.1 m/s, 1 km/hr)
. 1° (0° to 355°), 22.5° between compass points
. 0.1 m (0.1 km)
. 2.25 seconds

Wind Speed Sample and Display Interval. 2.25 seconds (Monitor & Wizard) Wind Direction Sample Interval 1 second (Monitor & Wizard) Wind Direction Filter Time Constant (typical) 8 seconds (Monitor & Wizard)

Wind Direction Display Update Interval 2 seconds (Monitor & Wizard)

WeatherLink® Data

Note: These specifications apply to sensor output as logged and displayed by the WeatherLink.

Average during graphics in

 Wind Speed
 Average during archive interval

 High Wind Speed
 Maximum during archive interval

Wind Direction Dominant wind direction during archive interval

Input/Output Connections

Red..... Ground

Yellow..... Pot supply voltage

Sensor Output

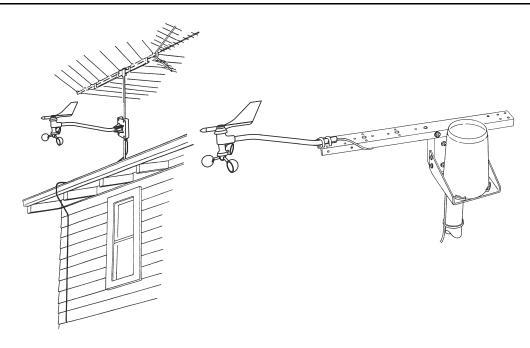
V = P(2.25/T)

V = speed in mph

P = no. of pulses per sample period

T = sample period in seconds

Installation Options



Package Dimensions

Product #	Package Dimensions (Length x Width x Height)	Package Weight	UPC Codes
7911	17.50" x 5.75" x 2.50" (445 mm x 146 mm x 64 mm)	1.7 lbs. (.7 kg)	011698 79110 1