

#### 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)

Cable Type . . . . . . . . . . . . . . . . . . 4-conductor, 26 AWG

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.

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**

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

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Ra	nge			
	Wind Speed (large wind cups) (See Note 1) Wind Direction Wind Run	· ·		
Acc	curacy			
	Wind Speed			
Re	solution			
	Wind Speed	1° (0° to 355°), 22.5° between compass points		
Ме	asurement Timing			
	Wind Speed Sample Period	2.25 seconds (Monitor & Wizard) 1 second (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.

 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)

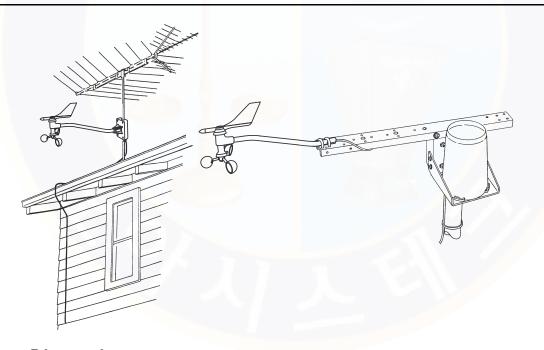
V = speed in mph

P = no. of pulses per sample period

T = sample period in seconds

Wind Direction...... Variable resistance 0 -  $20K\Omega$ ;  $10K\Omega$  = south,  $180^{\circ}$ 

# **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