

The Sonic Anemometer is designed to measure wind-related conditions without moving parts.

Pairs of electro-acoustic transducers in the anemometer send sonic pulses back and forth, and measure the time it takes for the pulse to travel from one to the other. This time is affected by the movement of the air, which allows the anemometer to calculate wind speed and direction, calibrated by temperature measurements.

The sonic anemometer has its own solar panel, so requires no external power.

It can be used with an EnviroMonitor® Node to add wind data to an EnviroMonitor system, as well as a replacement anemometer to your Davis weather station. Installed in a Sensor Transmitter, it can be used to include additional wind stations in your existing system when reporting to a WeatherLink Live™.

#### General

Operating Temperature.....+5°F to +131°F (-15°C to +55°C) Connector . . . . . . . . ..... Modular connector (RJ-11) 

Note: Maximum displayable wind speed decreases as cable increases.

Material

Control Head..... Polyacetal

Anemometer Arm . . . . . . . . . . . . . . . . Clear-anodized aluminum 

## Sensor Output

#### Wind Direction

Accuracy . . . . . . . ±2 degrees at wind speeds ≥ 7 mph (6 kts, 110 km/h, 3 m/s) ±4 degrees at wind speeds < 7 mph (6 kts, 110 km/h, 3 m/s)

### 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

cable increases.

### Input/Output Connections

Red..... Ground

Yellow . . . . . . Pot supply voltage

T = sample period in seconds)

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

# Package Dimensions

Product #	Package Dimensions (Length x Width x Height)	Package Weight	UPC Codes
6415	16.5" x 4.5 x 5.5." (419 mm x 114 mm x 140 mm)	2.0 lbs. (.9 kg)	011698013913

