Anemometer

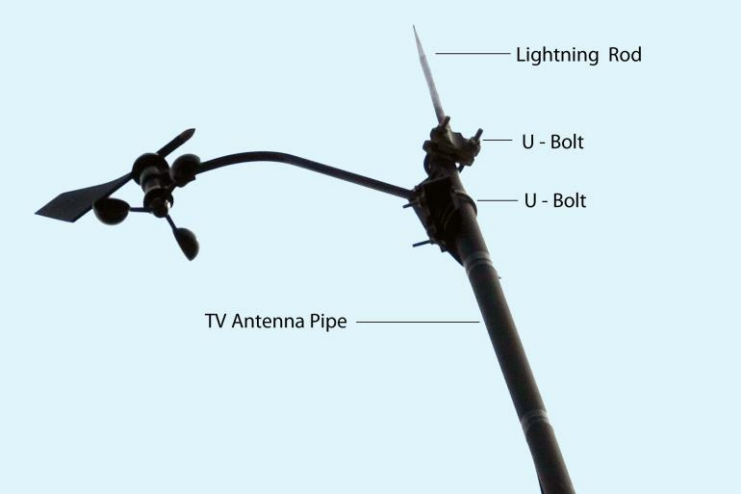
Davis Anemometer comes with 40 feet of cable

Davis Anemometer 6410

The Davis 6410 Anemometer includes both wind speed and wind direction sensors. Rugged components stand up to hurricane-force winds, yet are sensitive to a light breeze. These Davis Vantage Pro2 anemometers for sale include sealed bearings for long life. The range and accuracy specifications of this Davis Instruments anemometer have been verified in wind-tunnel tests.

A Davis Anemometer reported wind speeds of 175 miles per hour before its tower collapsed during hurricane Andrew, 1992.

In areas where icing of the anemometer is a problem, the included Anemometer Drip Rings deflect water from the joint between moving parts. The Davis 6410 is compatible with Vantage Pro and Vantage Pro2.



The standard for how high an anemometer should be mounted above the ground is pretty well accepted as 10 meters or around 32.8 feet. But the distance above a roof peak for wind measurements to be functional, there are as many opinions as there are people mounting anemometers. Some sources say that 4' above the roofline is plenty. Most sources explicitly state either 6' or 10' above the roofline is enough, but there are curiously few in between.

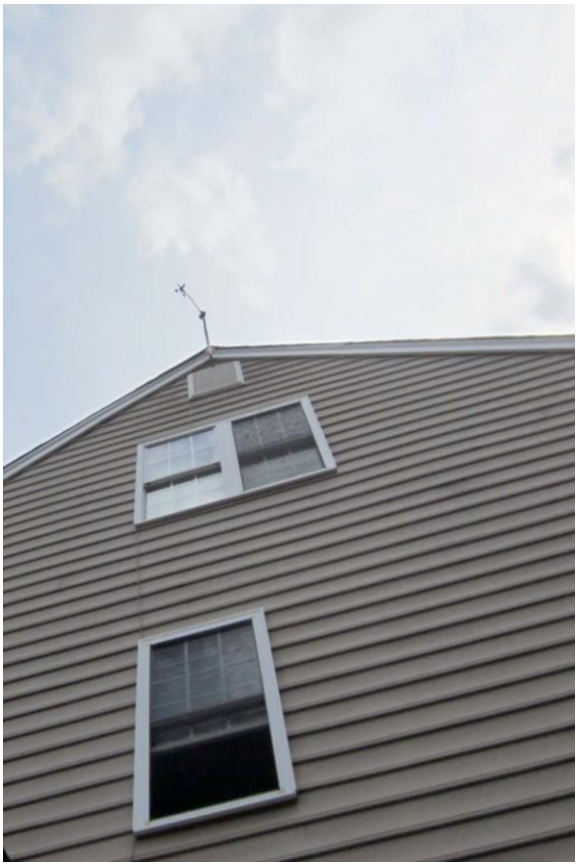
Clearly, there's conflicting information regarding how high the anemometer has to be above the roofline in order to eliminate (or nearly eliminate) influence from the roof itself. Davis makes a roof mount that is about 4 tall so they must think 4 feet would remove most of the effects of a roof mount. Because of the excellent exposure of the house, wind data should be top-notch, so it's imperative that my setup not suffer from any interference from the roof itself.

The Springfield Park-Glen Allen Station anemometer is now mounted at 34 to 35 feet above the ground on a pole attached to the north gable end of the roof and a little over 4 feet above the apex of the roof.

This is an image of the anemometer mounted to the north gable of the house.

The anemomter elevation is 273 ft. above sea level and is open to directions except the Northwest. Thus, wind speeds from most directions are accurately recorded. Deciduous trees to the NW of the anemometer decreases NW winds slightly even though they are located about 100 feet away from the anemometer.

In winter when the trees are bare of foliage they probaly have little or no noticeable affect on the winds speed. The anemometer is about 34 or 35 feet above the ground and no obstructions to the SE,E, NE and N. Wind from the south and southwest must pass across the roof but the anemomter is a little more than 4 feet above the roof.



This shows the view of the anemometer from ground level.

Download a movie of the anemometer in action see the following link.

Movie of the Anemometer in Action