

# #200P Wind Vane

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## Features

- Simple mechanical construction.
- Long life, professional quality potentiometer.
- No slip rings or brushes provide high reliability and low cost.
- Corrosion-resistant materials.
- Multiple mechanical and contact seals.
- No setscrews to vibrate loose.
- Very stable and smooth response to wind changes.
- Fully balanced sensor vane.



The #200P Wind Direction Vane is a professional quality sensor, originally designed for use in some of the world's largest wind power plants. Its unique qualities make it ideal for use in many other applications in environmental testing and meteorology. Although moderately priced, these sensors offer a level of quality and reliability often found only at a very high premium. The thermoplastic and stainless steel components resist corrosion, and contribute to a high strength-to-weight ratio. The #200P Vane is elegantly engineered, employing a minimum number of parts while maximizing functional performance. The vane is directly connected to a precision conductive plastic potentiometer located in the main body. An analog voltage output directly proportional to the wind direction is produced when a constant DC excitation voltage is applied to the potentiometer. Several different yaw vane configurations are available for wind turbine control. Field proven, the #200P is the wind industry de facto standard.

## Specifications

**Dimensions:** 210 mm (8.3") overall length  
270 mm (10.5") swept diameter  
120 mm (4.3") assembly height  
60 mm x 100 mm (2.3" x 3.8") vane  
13 mm (0.5") mast diameter

**Range:** 352° electrical (8° open)

**Signal:** 10 K analog DC voltage  
1% linearity  
50 million revolution life expectancy  
(2-6 years)

**Power:** requires 1 to 15 VDC

**Ordering:** Western Windpower. Part Number VANE

**Materials:** Black UV stabilized injection mold plastic  
Stainless steel balance weight  
Three #4-40 solid brass stud terminals with nuts  
Stainless steel potentiometer shaft and ball bearings  
Conductive plastic potentiometer element in aluminum housing  
All stainless steel hardware

**Weight:** 0.1 kg (0.2 lb)

**Temp. Range:** -55°C to 60°C (-67°F to 150°F)