

# SPECIFICATIONS

## NRG #200P Wind Direction Vane

### FEATURES

- The standard wind direction vane used in the wind energy industry
- Simple, durable design
- Corrosion-resistant materials



The NRG #200P wind direction vane is the industry standard wind direction vane used worldwide. The thermoplastic and stainless steel components resist corrosion and contribute to a high strength-to-weight ratio. 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. A rubber terminal boot is included.

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Description	Sensor type	continuous rotation potentiometric wind direction vane
	Applications	<ul style="list-style-type: none"><li>• wind resource assessment</li><li>• meteorological studies</li><li>• environmental monitoring</li></ul>
	Sensor range	360° mechanical, continuous rotation
	Instrument compatibility	all NRG loggers
Output signal	Signal type	Analog DC voltage from conductive plastic potentiometer, 10K ohms
	Transfer function	Output signal is a ratiometric voltage
	Accuracy	potentiometer linearity within 1%
	Dead band	8° Maximum, 4° Typical
	Output signal range	0 V to excitation voltage (excluding deadband)
Power requirements	Supply voltage	Regulated potentiometer excitation of 1 V to 15 V DC
Response characteristics	Threshold	1 m/s (2.2 miles per hour)
Installation	Mounting	onto a 13 mm (0.5 inch) diameter mast with cotter pin and set screw
	Tools required	0.25 inch nut driver, petroleum jelly, electrical tape
Environmental	Operating temperature range	-55 °C to 60 °C (-67 °F to 140 °F)

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	Operating humidity range	0 to 100% RH
	Lifespan	50 million revolutions (2-6 years normal operation)
Physical	Connections	4-40 brass hex nut/post terminals
	Weight	0.14 kg (0.3 pounds)
	Dimensions	<ul style="list-style-type: none"><li>• 21 cm (8.3 inches) length x 12 cm (4.3 inches) height</li><li>• 27 cm (10.5 inches) swept diameter</li></ul>
Materials	Body	black UV stabilized static-dissipating plastic
	Shaft	stainless steel
	Bearing	stainless steel
	Wing	black UV stabilized injection molded plastic
	Boot	protective PVC sensor terminal boot included
	Terminals	brass

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