



# JNRG #200P Wind Direction Vane, 10K, With Boot

## SPECIFICATIONS

The industry standard wind direction vane used worldwide. Thermoplastic and stainless steel components resist corrosion and contribute to a high strength-to-weight ratio. The industry standard wind direction vane used worldwide. Thermoplastic and stainless steel components resist corrosion and contribute to a high strength-to-weight ratio.

### Description

<b>Sensor type</b>	continuous rotation potentiometric wind direction vane
<b>Applications</b>	<ul style="list-style-type: none"><li>• wind resource assessment</li><li>• meteorological studies</li><li>• environmental monitoring</li></ul>
<b>Sensor range</b>	360° mechanical, continuous rotation
<b>Instrument compatibility</b>	all NRG loggers

### Output signal

<b>Signal type</b>	Analog DC voltage from conductive plastic potentiometer, 10K ohms
<b>Transfer function</b>	Output signal is a ratiometric voltage
<b>Accuracy</b>	potentiometer linearity within 1%
<b>Dead band</b>	8° Maximum, 4° Typical
<b>Output signal range</b>	0 V to excitation voltage (excluding deadband)

### Response characteristics

<b>Threshold</b>	1 m/s (2.2 miles per hour)
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### Power requirements

<b>Supply voltage</b>	Regulated potentiometer excitation of 1 V to 15 V DC
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### Installation

<b>Mounting</b>	onto a 13 mm (0.5 inch) diameter mast with cotter pin and set screw
<b>Tools required</b>	0.25 inch nut driver, petroleum jelly, electrical tape

### Environmental

<b>Operating temperature range</b>	-55 °C to 60 °C (-67 °F to 140 °F)
<b>Operating humidity range</b>	0 to 100% RH

<b>Lifespan</b>	50 million revolutions (2 to 6 years normal operation)
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**Physical**

<b>Connections</b>	4-40 brass hex nut/post terminals
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<b>Weight</b>	0.14 kg (0.3 pounds)
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<b>Dimensions</b>	<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>
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**Materials**

<b>Wing</b>	black UV stabilized injection molded plastic
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<b>Body</b>	black UV stabilized static-dissipating plastic
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<b>Shaft</b>	stainless steel
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<b>Bearing</b>	stainless steel
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<b>Boot</b>	protective PVC sensor terminal boot included
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<b>Terminals</b>	brass
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