MODEL 200P

Wind Direction Vane, 10K, With Boot

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

SPECIFICATIONS

Description	
Sensor type	continuous rotation potentiometric wind direction vane
Applications	wind resource assessment meteorological studies environmental monitoring
Sensor range	360º mechanical, continuous rotation
Instrument compatibility	METEODATA-2000/3000 Data loggers
Output signal	
Signal type	Analog DC voltage from conductive plastic potentiometer, 10K ohms
Transfer function	Output signal is a ratiometric voltage
Linearity	Potentiometer linearity within 1%
Accuracy	≤1º
Dead band	8º Maximum, 4º Typical
Output signal range	0 V to excitation voltage (excluding deadband)
Response characteristics	
Threshold	1 m/s (2.2 miles per hour)
Power requirements	
Supply voltage	Regulated potentiometer excitation of 1 V to 15 V DC
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	-55ºC to 60ºC (-67 ºF to 140 ºF)
Operating humidity range	0 to 100% RH
Lifespan	50 million revolutions (2 to 6 years normal operation)
Physical	
Connections	4-40 brass hex nut/post terminals
Weight	0.14 kg
Dimensions	21 cm length x 12 cm height 27 cm swept diameter
Materials	
Wing	black UV stabilized injection molded plastic
Body	black UV stabilized static-dissipating plastic
Shaft	stainless steel
Bearing	stainless steel
Boot	protective PVC sensor terminal boot included
Terminals	brass