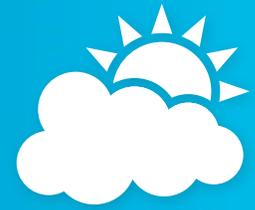


Air Quality Wind Sensor

5600-0202, -0204



SPECIFICATIONS

Specifications subject to change without notice

Parameters	Specifications
WIND SPEED	
Range	0 - 112 mph (0 50m/s)
Accuracy	± 0.4 mph (±0.2 m/s) or 1% of reading
Threshold	Propeller - 0.9mph (0.4m/s)
Dynamic Response	Propeller distance constant (63% recovery) 6.9 ft (2.1m)
Output	Magnetically induced AC voltage Shaped to 5 volt square wave 1800 rpm (90 Hz) = 19.7 mph (8.8m/s)
Power Supply	8 VDC min - 20 VDC max (to mA @ 12VDC)
WIND DIRECTION	
Range	360° mechanical 355° electrical (5 open)
Accuracy	± 3 degrees
Threshold	Vane - 1mph (0.5m/s) at 10° displacement
Response	50% recovery 3.9 ft (1.2m)
Damping Ratio	0.45
Nat. Wavelength	16.1 ft (4.9m)
Output	10K potentiometer, linearity 0.25%
Power Supply	15 VDC max
DIMENSIONS	
Height	15 in (38 cm)
Length	25.6 in (65 cm)
Weight	Sensor 1.5 lb (0.7 kg)
GENERAL	
Life Expectancy	50 million revolutions
ORDERING	
5600-0202	Wind Sensor - Prop Vane, for Air Quality (includes amplifier) for 8210A
5600-0204	Wind Sensor - Prop Vane for Air Quality (without amplifier) for Xpert/XLite
ACCESSORIES	
6411-1151-1	Cable Assy, WS/WD, 30 ft for 8210, Xpert, XLite
6411-1152-1	Cable Assy, WS/WD, 30 ft for 8004



High resolution wind sensor designed specifically for air quality applications

- ▶ Combines simplicity and corrosion resistance with low starting threshold
- ▶ Fast response
- ▶ Excellent fidelity in fluctuating wind conditions
- ▶ Lightweight, carbon fiber thermoplastic, helicoid propeller, sensor body of UV stabilized plastic with stainless steel and anodized aluminum fittings
- ▶ AC sine wave voltage signal with frequency directly proportional to wind speed (This AC sine wave is then squared to 0 to 5 VDC so signal is compatible with Model 8200A/8210 data loggers frequency inputs on the 5600-0202 only.)
- ▶ No slip rings or brushes
- ▶ Direction sensed by precision potentiometer that produces a DC voltage directly proportional to vane angle