



# WIND SPEED WIND DIRECTION

Part# 630-9000-XXX

## Description

Automata's Wind Speed and Wind Speed and Direction Sensor are moderately priced, quality transducers designed for general applications. A combination of injection molded thermoplastic, anodized aluminum, and stainless steel parts contribute to reliable operation in adverse environments. The combination three-cup anemometer and wind vane units utilize an in-line configuration, eliminating the need for a cross arm. The anemometers produce a series of output pulses having a frequency directly proportional to wind speed. When using the Wind Sensor with Automata's Field Stations, a WIND-COMP (630-03601-XXX) is needed to provide a low cost signal conversion from the anemometer's frequency signal to an analog output (wind speed) as well as a pulse output (wind run). *NOTE: In very dusty conditions the wind direction bearings can bind. The bearings must then be cleaned to avoid damage.*



Specifications	Wind Speed Only Sensor	Wind Direction Only Sensor
Output	0-1mA standard	0-5V standard
Turning radius	4.25"	6"
Speed threshold	0.8 mph	N/A
Transducer type	Magnetic reed switch	20K ohm potentiometer, single wiper
Speed constant	1.25 mph = 1 pps	(Time) 2 sec, (Distance) 1.5'
Measurement range	0-99 mph	0-360° mechanical, 0-355° electrical
Accuracy	0.5 mph or ± 3%	(Azimuth) ± 3°
Size	4.5" H x 8.5" W	12-1/2" H x 8" W
Cable	40', 2 conductor, 24 AWG	40', 3 conductor, 24 AWG
Weight/shipping	1 lb/2 lbs	
Potentiometer gap	N/A	5°
Damping ratio	N/A	0.4
Vane threshold	N/A	1.2 mph
Resolution	N/A	< 1°
<b>Wind Speed &amp; Direction Sensor</b>		
The combination of the above sensors mounted in an in-line configuration.		
Cable	40', 5 conductor, 24 AWG	
Weight/Shipping	2 lbs/3 lbs	
Environmental		
Operating Temperature	-40° to +60°C	
Relative humidity	0-100%	
Wire connections	White = Wind Speed, Black = Ground, Clear = Shield Green = W/D output (not needed for Wind Speed only) Red = 5 Volt Reference (not needed for Wind Speed only)	

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