GEONICA

Model GEO-WS
Biaxial Ultrasonic Wind Sensor

The model **GEO-WS** is a real low cost alternative to conventional cup/vane/propeller wind sensors in a single unit. **GEO-WS** is based on our existing, highly successful, proven ultrasonic technology. Ideal for applications that demand economic wind sensing, **GEO-WS** is suitable for land-based and marine environments.

A light weight unit, **GEO-WS** is of a robust, high strength construction designed to withstand installation and use with no fear of the damage commonly experienced with the more fragile cups, vanes or propellers. Without the need for expensive on-site calibration or maintenance and with a corrosion free exterior, **GEO-WS** is a true fit and forget unit.

The flexible design enables you to easily configure **GEO-WS** deliver the information you require. By using the software provided it is possible to select the output rate and choose the units of measurement that suit your application. Ensuring accuracy and reliability, **GEO-WS** automatically transmits an anemometer status code with each output to in-dicate its operating status. Available in four options, providing a number of different digital and analogue outputs, **GEO-WS** can be supplied with RS232, RS422, RS485, SDI-12 and NMEA digital outputs as standard.

Maintenance free, quick and easy to install, **GEO-WS** is designed to be mounted using a standard pole fitting and comes complete with all screw fittings, a mating marine grade connector and comprehensive user manual.

MEASUREMENT	
Output Rate	0.25, 0.5, 1, 2 or 4 Hz
Parameters	Wind Speed & Direction or U V vectors
Units of Measure	m/s, knots, mph, kph, ft/min
WIND SPEED	
Range	0 – 65 m/s
Accuracy	± 2%
Resolution	0.01 m/s
Threshold	0.01 m/s
Response Time	0.25 seconds
WIND DIRECTION	
Range	0 to 360° – no dead band
Accuracy	± 2°
Resolution	1°
Response Time	0.25 seconds
SENSOR STATUS	
Message supplied as part of standard output	
POWER REQUIREMENTS	
9 mA for RS-232 output	

DIGITAL OUTPUTS	
Option 1	RS232
Option 2	RS232 + RS422 + RS485 + NMEA 0183
Option 3	RS232 + RS422 + RS485 + NMEA 0183 + 0-5V or 4-20mA
Option 4	SDI-12
Baud Rate	2400 to 38400
ENVIRONMENTAL	
Protection Class	IP66
Operating Temperature	-40°C to +70°C
Storage Temperature	-40°C to +80°C
Operating Humidity	<5% to 100%
EMC	EN 61326: 1998
MOUNTING	Pipe Mounting 44.45 mm diameter
DIMENSIONS	
Size	142 x 163 mm
Weight	0.5 kg