



MODEL WS

BIAXIAL ULTRASONIC ANEMOMETER



At last, a real low cost alternative to conventional cup/vane/propeller wind sensors in a single unit - WindSonic. Utilising our expertise as the world's leading sonic manufacturer, **WindSonic** is based on our existing, highly successful, proven ultrasonic technology. Ideal for applications that demand economic wind sensing, WindSonic is suitable for land-based and marine environments.

A lightweight unit, **WindSonic** 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, WindSonic is a true fit and forget unit.

The flexible design enables you to easily configure **WindSonic** to 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, **WindSonic** automatically transmits an anemometer status code with each output to indicate its operating status. Available in four options, providing a number of different digital and analogue outputs, WindSonic can be supplied with RS232, RS422, RS485, SDI-12 and NMEA digital outputs as standard.

Maintenance free, quick and easy to install, WindSonic 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.

OUTPUTS

Output 1, 2 or 4 outputs per second
 Parameters Wind Speed & Direction or UV
 Units of Measure m/s, knots, mph, kph, ft/min

WIND SPEED

Range 0 – 60 m/s
 Accuracy ± 2%
 Resolution 0.01 m/s

WIND DIRECTION

Range 0 to 360° – no dead band
 Accuracy ± 3°
 Resolution 1°

ANEMOMETER STATUS

Message supplied as part of standard output

POWER REQUIREMENT

Anemometer 9-30Vdc @ 40mA typical

OUTPUTS

Option 1 RS232
 Option 2 RS232+ RS422 + RS485
 Option 3 RS232 + RS422 + RS485
 + 0-5V or 4-20mA
 Option 4 SDI-12
 Available on options 2 + 3 as standard, NMEA 0183 Version 3

ENVIRONMENTAL

Moisture Protection IP65
 Operating Temperature -35°C to ~70°C
 Storage Temperature -40°C to ~90°C
 Operating Humidity <5% to 100%
 EMC BS EN 50081-1: 1992
 (Emissions Class B) BS EN 50082-1: 1997 (Immunity)

ENVIRONMENTAL

MOUNTING Pipe Mounting 44.45 mm (1.75 in) diameter

DIMENSIONS

Size 142 x 160 mm
 Weight 0.5 kg