

# WindSonic

## Wind Speed & Direction Sensor

WINDSONIC



### ALL WEATHER SENSING TECHNOLOGY

**MAINTENANCE FREE - 2 YEAR WARRANTY**

- *LOW START SPEED*
- *CORROSION FREE, UV STABLE MATERIAL*
- *NO CALIBRATION REQUIRED*
- *ROBUST CONSTRUCTION*
- *TRUE 0-359° OPERATION (no dead band)*
- *WIND SPEED & DIRECTION FROM A SINGLE UNIT*
- *AGRICULTURE*
- *HVAC*
- *POLLUTION CONTROL*
- *PORTABLE WEATHER STATIONS*
- *ROADSIDE WEATHER STATIONS*
- *TUNNELS*
- *MARINE*

## WINDSONIC - ULTRASONIC WIND SENSOR

At last, a real low cost alternative to conventional cup/vane/propeller wind sensors in a single unit - WindSonic from Gill Instruments. 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 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 three options, providing a number of different digital and analogue outputs.

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.

The unit is supplied with a 2 year warranty as standard.

### CUSTOMER SELECTABLE

Output	1, 2 or 4 outputs per second
Parameters	Wind Speed & Direction or U and V (vectors)
Units of Measure	m/s, knots, mph, kph, ft/min

### WIND SPEED

Range	0 – 60 m/s (116 knots)
Accuracy	+/- 2%
Resolution	0.01 m/s (0.02 knots)

### WIND DIRECTION

Range	0 to 359° – no dead band
Accuracy	+/- 3°
Resolution	1°

### ANEMOMETER STATUS

Message supplied as part of standard output

### POWER REQUIREMENT

Anemometer	9-30Vdc @ 14.5mA typical
	Start up time <1 second

### OUTPUTS

Option 1	RS232
Option 2	RS232 + RS422 + RS485 + NMEA*
Option 3	RS232 + RS422 + RS485 + NMEA* + 0-5V or 4-20mA
Option 4	SDI-12 + RS232

\* NMEA 0183 Version 3

### ENVIRONMENTAL

Ingress Protection	IP65
Operating Temperature	-35°C to +70°C
Storage Temperature	-40°C to +90°C
Operating Humidity	<5% to 100%
EMC	EN 61000-6-2 : 2001 EN 61000-6-3 : 2001

### MTBF

15 years

### MATERIALS

External Construction LURAN S KR 2861/IC ASA/PC

### DIMENSIONS

Size	142 x 160 mm
Weight	0.45 kg

### WARRANTY

2 years

### OPTIONAL FACTORY CALIBRATION

Traceable to national standards

### ACCESSORIES

Pipe Mounting	44.45 mm (1.75 in) diameter
WindCom - Display & logging software *	
Cables	
Display	

\* download WindCom free from [www.gill.co.uk](http://www.gill.co.uk)



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The WindSonic is part of the Solent range of ultrasonic anemometers. The range is in continuous development and therefore specifications may be subject to change without prior notice.