

ULTRASONIC WIND SENSOR



SPECIFICATION

<b>OUTPUTS</b>		<b>ENVIRONMENTAL</b>	
Output Parameters	1, 2 or 4 outputs per second Wind Speed & Direction or UV	Moisture Protection	IP65
Units of Measure	m/s, knots, mph, kph, ft/min	Operating Temperature	-35°C to +70°C
<b>WIND SPEED</b>		Storage Temperature	-40°C to +90°C
Range	0 – 60 m/s	Operating Humidity	<5% to 100%
Accuracy	+/- 2%	EMC	BS EN 50081-1: 1992 (Emissions Class B) BS EN 50082-1: 1997 (Immunity)
Resolution	0.01 m/s	<b>MTBF</b>	
Custom calibration available on request.		10 years	
<b>WIND DIRECTION</b>		<b>MATERIALS</b>	
Range	0 to 360° – no dead band	External Construction	
Accuracy	+/- 3°	LURAN S KR 2861/1C ASA/PC	
Resolution	1°	<b>DIMENSIONS</b>	
<b>ANEMOMETER STATUS</b>		Size	
Message supplied as part of standard output		142 x 160 mm	
<b>POWER REQUIREMENT</b>		Weight	
Power Requirement	9-30Vdc @ 40mA typical	0.5 kg	
<b>OUTPUTS</b>		<b>STANDARDS</b>	
Option 1	RS232	Manufactured within ISO9001 quality system	
Option 2	RS232 + RS422 + RS485	<b>OPTIONAL FACTORY CALIBRATION</b>	
Option 3	RS232 + RS422 + RS485 + 0-5V or 4-20mA	Traceable to national standards	
Option 4	SDI-12	<b>MOUNTING</b>	
Available on options 2 + 3 as standard NMEA 0183 Version 3		Pipe Mounting 44.45 mm (1.75 in) diameter	

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The SOLENT range is in continuous development and therefore specifications may be subject to change without prior notice.

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# WINDSONIC



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 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.

Providing accurate results in weather conditions where traditional mechanical sensors fail, WindSonic exhibits a number of further, very distinct advantages:

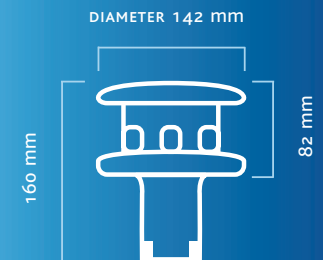
- Consistent performance throughout life (no accuracy degradation due to wear of moving parts)
- Corrosion free, uv resistant material
- Low start speed (0.01 m/s, 0.09 knots)
- Maintenance free
- No calibration required
- Robust construction
- Software configurable
- Status code output
- True 0°-360° operation (no dead band on direction output)
- Wind speed and direction from a single unit

Economic to use, WindSonic is ideal for accurate wind measurement in applications such as:

- Agriculture
- HVAC
- Pollution control
- Portable weather stations
- Roadside weather stations
- Tunnels
- Utilities
- Yachting

## WINDSONIC DIMENSIONS

### SIDE VIEW



### VIEW FROM UNDERSIDE

