


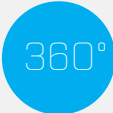
# Windsonic Anemometer

The Windsonic is a low-cost anemometer utilizing proven ultrasonic technology to provide wind speed and direction data via one serial or two analogue outputs.







**Wind speed & direction  
from a single unit**



**0 - 359° wind direction  
fast start-up**



**Low power  
consumption**



**No calibration required**

With a robust, corrosion-free polycarbonate housing, this small, lightweight wind sensor is recommended for use in harsh environmental conditions and is particularly suited to marine & offshore (ships, data buoys) and land based installations.

The sensor is 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 four options, providing a number of different digital and analogue outputs.

## Wind speed

<b>Range</b>	0 to 60 m/s (116 knots)
<b>Accuracy</b>	±2 % @ 12 m/s
<b>Resolution</b>	0.01 m/s (0.02 knots)
<b>Response time</b>	0.25 seconds
<b>Threshold</b>	0.01 m/s

## Wind direction

<b>Range</b>	0 to 359° (no dead band)
<b>Accuracy</b>	±2° @ 12 m/s
<b>Resolution</b>	1°
<b>Response time</b>	0.25 seconds

## Power requirement

<b>Anemometer</b>	5 to 30 V DC option 1 & 2 7 to 30 V DC option 3 9 to 30 V DC option 4
<b>Current Drain</b>	Dependent on option selected e.g. < 2 mA @ 12 V (SDI-12) to 44 mA @ 12 V (4 - 20 mA)
	start-up time < 5 seconds

## Measurement

<b>Output</b>	0.25, 0.5, 1, 2 or 4 Hz
<b>Parameters</b>	wind speed & direction or U and V (vectors)
<b>Units of measure</b>	m/s, knots, mph, kph, ft/min

## Outputs

<b>Option 1</b>	RS-232
<b>Option 2</b>	RS-232, RS-422, RS-485, NMEA 0183
<b>Option 3</b>	RS-232 + RS-422 + RS-485, NMEA 0183 0 - 5 V or, 0 - 20 mA or 4 - 20 mA
<b>Option 4</b>	SDI-12 (refer to manual or separate datasheet for technical specification)
<b>Baud rate</b>	2400 to 38400
<b>Anemometer status</b>	Supplied as part of standard message

## Environmental specifications

<b>Protection class</b>	IP 66
<b>Operating temperature</b>	-35 °C to +70 °C
<b>Storage temperature</b>	-40 °C to +80 °C
<b>Operating humidity</b>	< 5 % to 100 %RH
<b>Precipitation</b>	300 mm/hr
<b>EMC</b>	EN 61326: 1998

## Mechanical specifications

<b>External construction</b>	LURAN S KR 2861/1C ASA/PC
<b>Size</b>	142 x 163 mm
<b>Weight</b>	0.5 kg

## Operational specifications

<b>MTBF</b>	15 years
<b>Warranty</b>	2 years
<b>Factory calibration</b>	traceable to national standards

## Accessories

<b>Pipe mounting</b>	44.45 mm (1.75 in) diameter
<b>Wind software</b>	display / logging
<b>Cables</b>	available to match output options

