WindSonic[™]

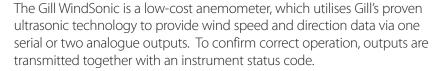
Wind Speed & Direction Sensor



Key Features

- Wind Speed & Direction Sensor
- 0-60m/s (116 knots) Wind Speed
- 0-360° Wind Direction
- NMEA output

- Low Power consumption
- Fast start-up
- Solid-state maintenance-free
- Corrosion Free



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 WindSonic has no moving parts, offering maintenance-free operation in a wide range of applications.



WIND SPEED

Range	0 - 60 m/s (116 knots)
Accuracy	±2% @12 m/s
Resolution	0.01 m/s (0.02 knots)
Response Time	0.25 seconds
Threshold	0.01 m/s

DIRECTION

Range	0 - 360° (No dead band)
Accuracy	±2° @12 m/s
Resolution	1°
Response Time	0.25 seconds

MEASUREMENT

	Ultrasonic Output Rate	0.25, 0.5, 1, 2 or 4 Hz
	Parameters	Wind Speed & Direction or U and V (vectors)
	Units of Measure	m/s, knots, mph, kph, ft/min

OUTPUTS

Option 1	RS232
Option 2	RS232 + RS422 + RS485*** + NMEA*
Option 3	RS232 + RS422 + RS485*** + NMEA* 0-5V or, 0-20mA or 4-20mA
Option 4	SDI-12 (refer to manual or separate datasheet for technical specification)
Baud Rate	2400 to 38400
Anemometer Status	Supplied as part of standard message

POWER REQUIREMENT

Anemometer	5-30VDC Option 1 & 2
	7-30VDC Option 3
	9-30VDC Option 4
Current Drain	Dependent on option selected e.g. < 2mA @ 12V (SDI-12) to 44mA @ 12V (4-20mA) Refer to manual for further advice
	Start up time < 5 seconds

MECHANICAL

External Construction	LURAN S KR 2861/1C ASA/PC
Size	142mm x 163mm
Weight	0.5kg

ENVIRONMENTAL

Protection Class	IP66
OperatingTemperature	-35°C to +70°C
Storage Temperature	-40°C to +80°C
Operating Humidity	< 5% to 100% RH
Precipitation	300mm/hr
EMC	EN 61326: 1998

OPERATIONAL

MTBF	15 years
Warranty	2 years
Factory Calibration	Traceable to National Standards

ACCESSORIES

Wind Software	Display / Logging**
Pipe Mounting (optional)	44.45mm (1.75 in) diameter
Cables (optional)	Available to match output options
Display (optional)	See Gill Display datasheet

^{*} NMEA 018

^{**} Download software free from www.gillinstruments.com

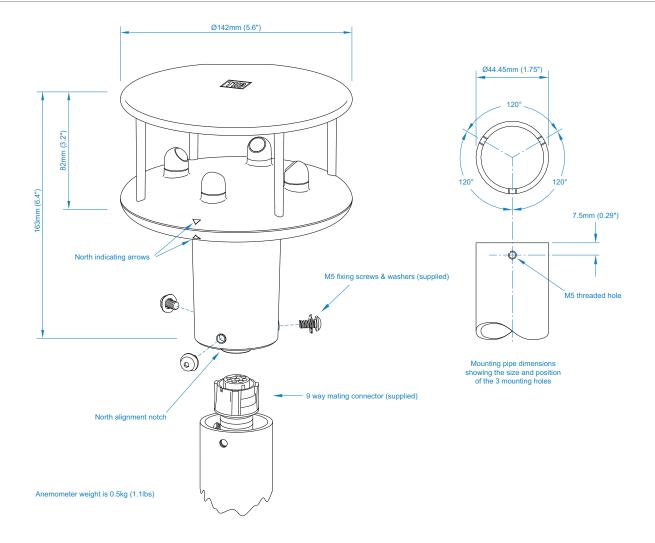
^{*** 2-}wire is point to point only



Typical Applications

- Remote weather monitoring stations
- Building controls
- Data buoys
- Marine vessels
- Small airports & helipads

- Road & rail tunnels
- Environmental field sites
- Ports & harbours
- Mobile weather monitoring vehicles
- Coastal weather monitoring stations



Specifications may be subject to change without prior notice.



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