

Wind Speed & Direction Sensor

Key Features

- Low Power Operation <2mA
- Rolling Average Facility
- SDI-12 V1.3 Compatible
- Multiple Sensors (Maximum 10)
- Solid State – Maintenance Free
- 2 Year Warranty
- Low Cost Of Ownership
- Corrosion Free



The WindSonic™ SDI-12 is a low cost anemometer, utilising Gill's proven ultrasonic technology to provide wind speed and direction data via an SDI-12 output. New features include lower power consumption <2mA in standby and a vector or scalar rolling average feature providing 1min average and 1 min max speed with associated direction.

With a robust, corrosion-free polycarbonate housing, this small, lightweight wind sensor is particularly suited to meteorological and hydrological 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 - 359° (No dead band)
Accuracy	±3° @12 m/s
Resolution	1°
Response Time	0.25 seconds

Measurement

Update rate (for polling)	1 Hz
Parameters	Wind Speed & Direction or U and V (vectors)
Units of Measure	m/s

Outputs

Output type	SDI-12 (refer to manual for technical specification) SDI-12 v 1.3
Baud Rate	1200
Anemometer Status	Supplied as part of standard message

Averaging

Rolling Average (normal power operation only)	1 Min Vector or 1 Min Scalar 1 Min Maximum Speed & Direction
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Power Requirement

Anemometer (polled at 1Hz)	<2 mA @12 V - Low power operation <10 mA @12 V - Normal power operation
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Mechanical

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

Environmental

Protection Class	IP65
Operating Temperature	-35°C to +70°C
Storage Temperature	-40°C to +80°C
Operating Humidity	< 5% to 100% RH
EMC	EN 61326: 1998

Operational

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

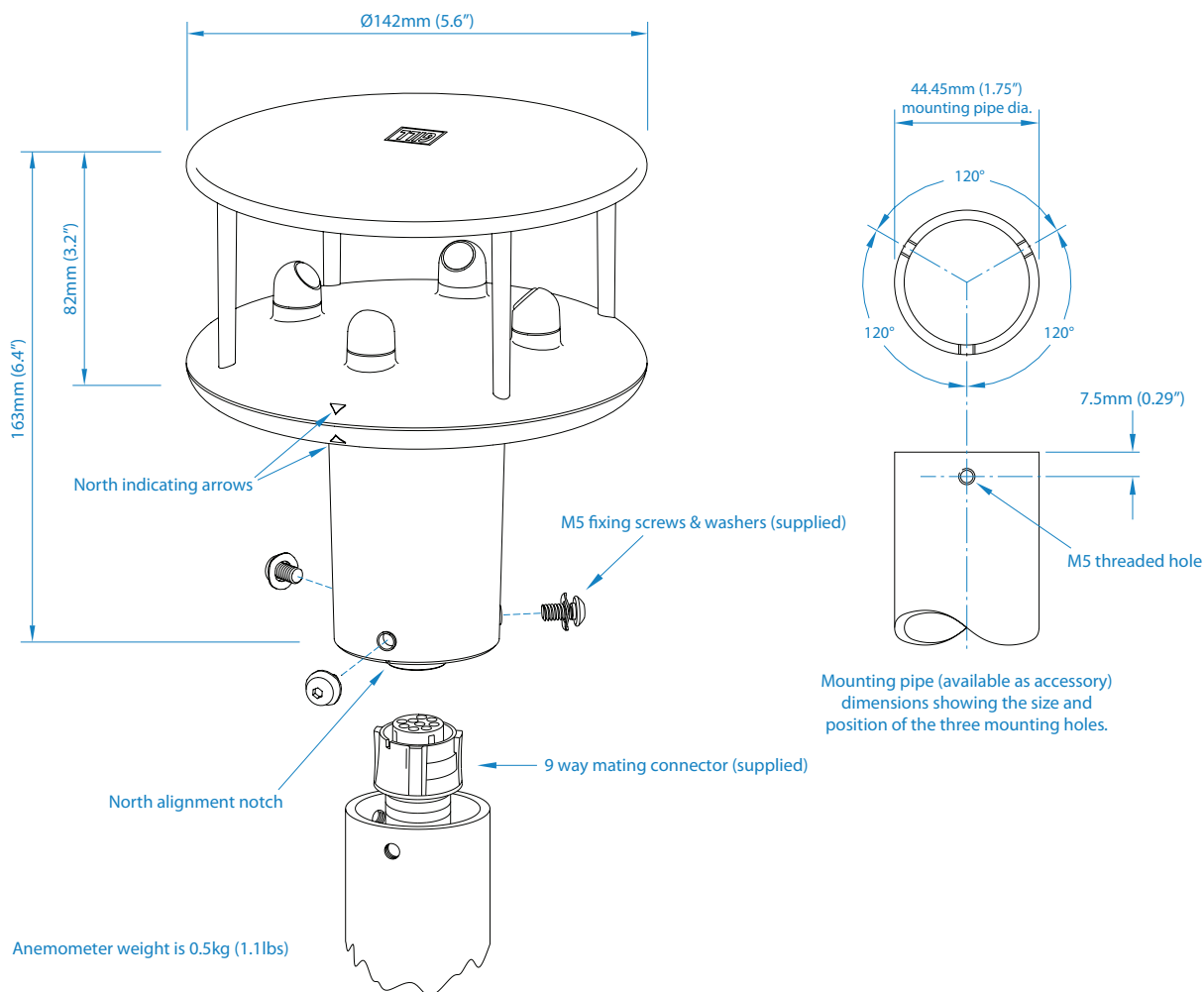
Accessories

Pipe Mounting	44.45mm (1.75") dia x 500mm length
Cables	Available to match output options

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Typical Applications

- Remote weather monitoring stations
- Environmental field sites
- Agricultural Met
- Pollution Control
- Utilities
- Hydrological
- HVAC
- Environmental Protection



This product is in continuous development and therefore specifications may be subject to change without prior notice.



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