

WindSonic 60

High quality, general purpose, ultrasonic anemometers.

PRODUCT OVERVIEW

Gill WindSonic 60 is a low-cost anemometer, which utilises Gill's proven ultrasonic technology to provide wind speed and direction data via one serial or two analogue outputs.

WindSonic is WMO-compliant for gust measurement. 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. WindSonic anemometers have no moving parts, offering maintenance-free operation in a wide range of applications.

KEY FEATURES & BENEFITS

01 Accurate wind speed and direction measurement from a single solid-state sensor.

02 0–60 m/s (116 knots) wind speed range with full 0–360° direction coverage.

03 WMO-compliant gust measurement using rolling averages.

04 No moving parts, minimising maintenance and reduced lifetime costs.

05 Corrosion-free design with proven reliability

06 Low power consumption with fast start-up.

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

WindSonic ultrasonic anemometers offer high accuracy, low cost wind measurement.



gillinstruments.com

陕西威瑞仪器仪表有限公司 生产代理销售：实验检测设备 气象科学仪器设备
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TECHNICAL SPECIFICATION

Wind Speed	
Range	0 - 60 m/s (116 knots)
Accuracy	<2% RMSE or 0.2m/s RMSE, whichever is greater (0-20m/s) <3% RMSE (20-60m/s)
Resolution	0.01 m/s (0.02 knots)
Response time	0.25 seconds
Starting threshold	0.01 m/s

Wind Direction	
Range	0 - 360° (no dead band)
Accuracy	<2° RMSE (0-60m/s)
Resolution	0.1° Option 1,2 & 3 (output at 0, 1 or 2 decimal places) 1° Option 4 0.1° Option 5
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 measurement	m/s, knots, mph, kph, ft/min
Anemometer status	For unit diagnostics

Outputs	
Option 1 interface	RS232
Option 2 interfaces	RS232, RS422, RS485**
Option 3 interfaces	RS232, RS422, RS485** Analogue 0-5 V or 0-20 mA or 4-20 mA
Option 1, 2 & 3 protocols	ASCII, NMEA 0183
Option 4	SDI-12 (refer to manual for further information)
Option 5	Modbus RTU, 2-wire RS-485
Baud Rate	2400 to 38400

* Download software free from gillinstruments.com

** 2-wire is point-to-point only



Operational	
Warranty	24 months
Factory calibration	Traceable to National Standards

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

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

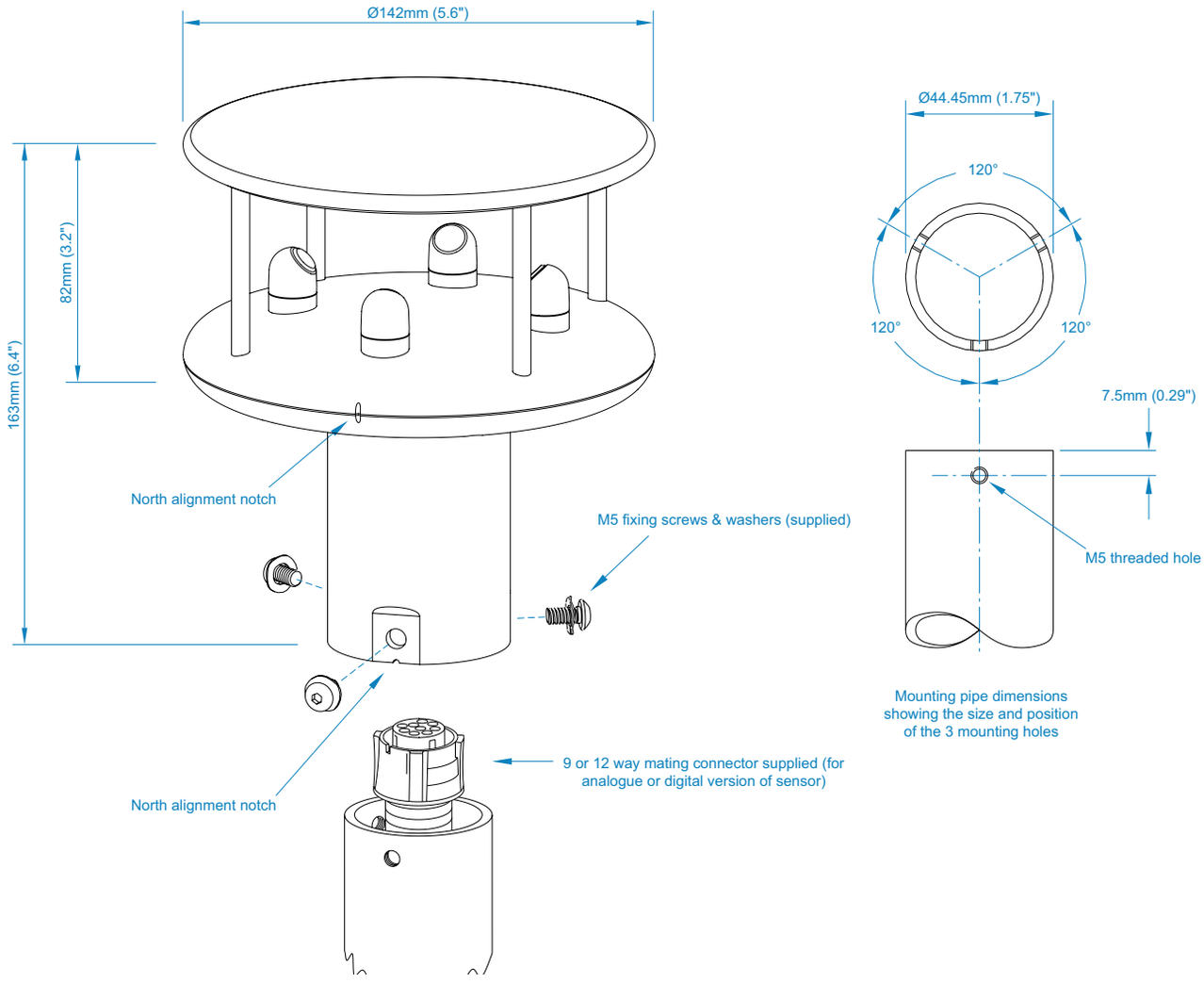
Environmental	
Protection class	IP66
Operating temperature	-35°C to +70°C
Storage temperature	-40°C to +80°C
Operating humidity	< 5% to 100% RH
Precipitation	300 mm/hr

Accessories	
Pipe mounting (optional)	44.45 mm (1.75 in) diameter
Wind software	Display / logging*
Cables (optional)	Available to match output options
Display (optional)	See Gill Display datasheet

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Designed and manufactured in the UK by Gill Instruments Limited.

Specifications may be subject to change without prior notice

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MORE INFO

For more information about Gill's WindSonic range, please email **contact.gi@gill.group**

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