

WindSonic M

High quality, general purpose, ultrasonic anemometer with optional heating.

PRODUCT OVERVIEW

Gill WindSonic M utilises Gill's proven ultrasonic technology to provide wind speed and direction data. WindSonic is WMO-compliant for gust measurement.

With an impact resistant, corrosion-free, hard anodised aluminium alloy housing and optional heating system, this wind sensor is recommended for use in harsh environmental conditions and is particularly suited to both marine and land based installations. WindSonic M has 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 reducing lifetime costs.

05 Corrosion-free design built for harsh environments.

06 Rapid heating (option) for extreme low temperature applications.

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 M offers 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
Tel:029-88186182 Web:www.qixiangzhan.cn Email:sxvery@163.com

WindSonic M

High quality, aluminium, ultrasonic anemometer with optional heating

TECHNICAL SPECIFICATION



Wind Speed	
Range	0 - 60 m/s (116 knots)
Accuracy	2% RMSE @12 m/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 @12 m/s
Resolution	0.1° (output at 0, 1 or 2 decimal places)
Response time	0.25 seconds

Measurement	
Ultrasonic output	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	
Digital	RS232, RS422, RS485**
Analogue option	0-5 V or 0-20 mA or 4-20 mA
Protocols	ASCII
Baud Rate	2400 to 38400

Operational	
Warranty	24 months
Factory calibration	Traceable to National Standards

Mechanical	
External construction	Al Alloy 6061 T6
Size	142 mm x 163 mm
Weight	0.9kg
Finish	Hard anodised

Power Requirement	
Anemometer	5-30 VDC non-analog. (5.5 mA @12 V)
	7-30 VDC analog. (9-44 mA @12 V)
Optional heating ***	24 V AC/DC (4.2 A @ 24 V)
Analogue outputs	Current consumption increases if analogue output is selected. Add up to 40 mA to nominal power consumption above
	Start up time < 5 seconds

Environmental	
Protection class	IP66 BS EN 60529 : 1992
Operating Temperature	-40°C to +70°C (with heating) -35°C to +70°C (without heating)
Storage temperature	-40°C to +80°C
Operating humidity	< 5% to 100% RH
Precipitation	300 mm/hr
Impact resistance	UL2218 Class 1
Compass safe distance	BS EN 60945 : 2002 Section11.2
Vibration	BS EN 60945 : 2002

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

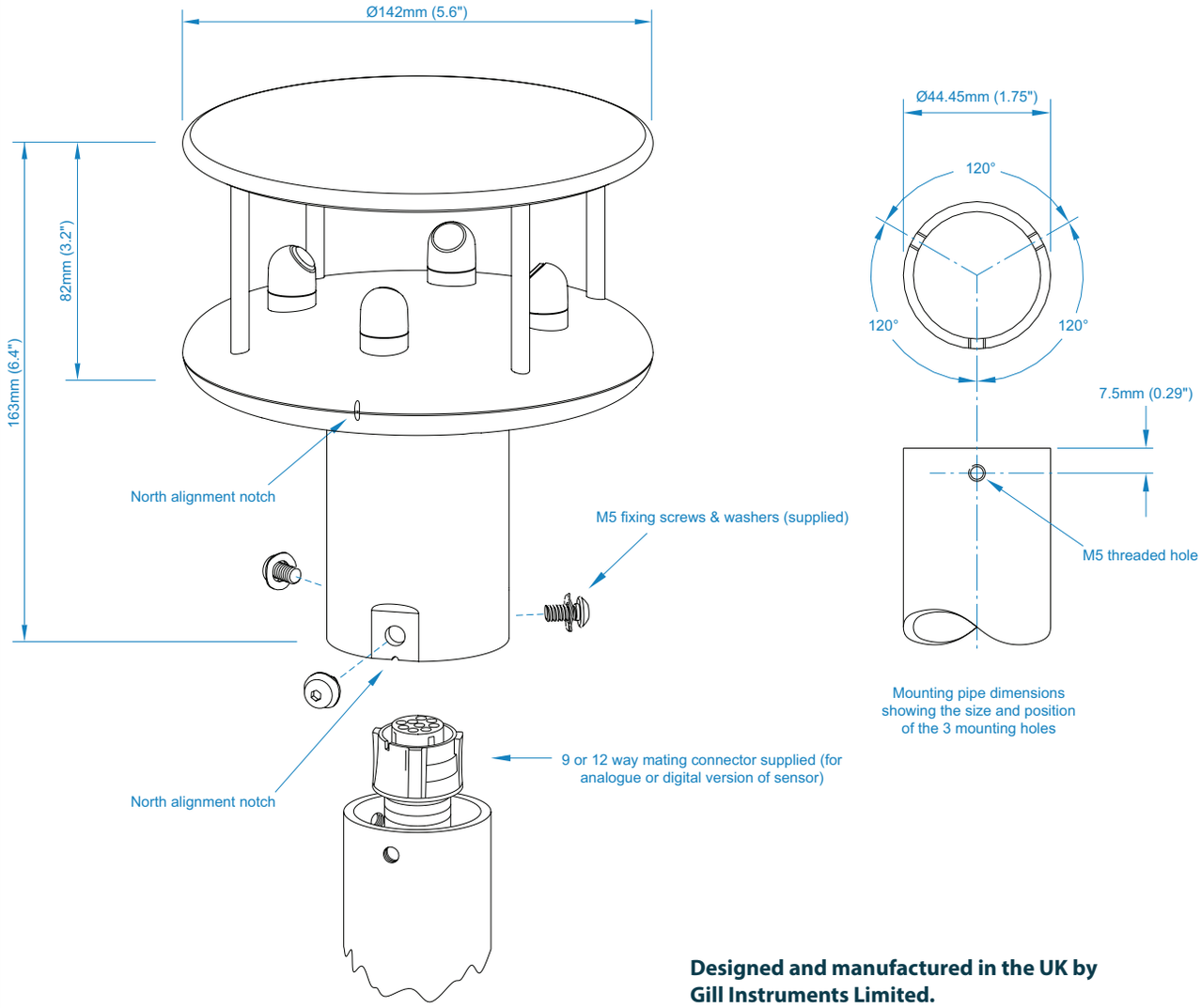
* Download software free from gillinstruments.com

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

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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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