

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.

## Typical applications

- Remote weather monitoring stations
- Building controls
- Data buoys
- Marine vessels
- Remote airports & helipads
- Road & rail tunnels
- Environmental field sites
- Ports & harbours
- Mobile weather monitoring vehicles
- Coastal weather monitoring stations

## WindSonic key features

- Wind speed & direction sensor
- Hard anodised aluminium alloy construction
- -40°C operation (with optional heating)
- Vibration BS EN 60945 : 2002
- Impact resistance to UL2218 Class 1
- 0-60 m/s (116 knots) wind speed
- 0-360° wind direction
- WMO-compliant gust wind speed and direction calculated from a rolling average
- NMEA output
- Solid-state ultrasonic technology - no moving parts
- Analogue output (optional)

## Benefits

- High accuracy, low cost wind measurement
- Excellent, well proven reliability
- Low maintenance delivers low cost of ownership
- Models and outputs to suit varied applications
- Rapid heating (option) for extreme low temperature applications



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



**WindSonic wind sensors provide excellent reliability combined with low maintenance, for long-term deployment including in remote locations**

For pricing or any further information, please contact Omni Instruments Ltd.

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 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	
Digital	RS232, RS422, RS485**
Analogue (optional)	0-5V or 0-20 mA or 4-20 mA
Protocols	ASCII, NMEA 0183
Baud Rate	2400 to 38400

POWER REQUIREMENT	
Anemometer	5-30 VDC non-analogue (5.5 mA @ 12 V)
	7-30 VDC analogue (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

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

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 Section 11.2
Vibration	BS EN 60945 : 2002

OPERATIONAL	
Warranty	24 months
Factory calibration	Traceable to National Standards

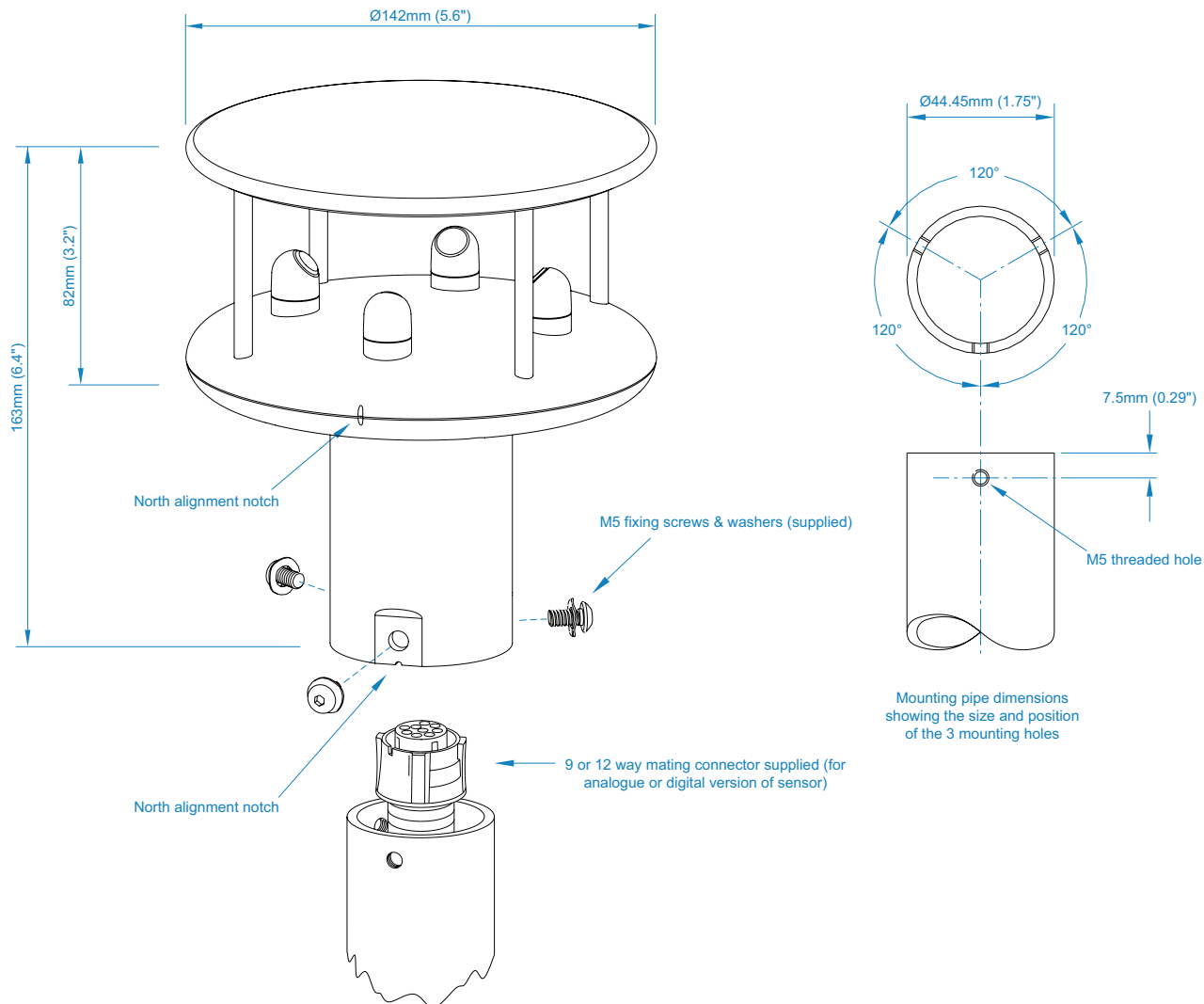
ACCESSORIES	
Pipe mounting (optional)	44.45 mm (1.75 in) diameter
Wind software	Display / logging*
Cables (optional)	Available to match output options
Display (optional)	See Gill Display datasheet

\* Download software free from [gillinstruments.com](http://gillinstruments.com)

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

\*\*\* Consult the User Manual for optimum heating supply voltage

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Specifications may be subject to change without prior notice.

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