

## Ultrasonic Wind Sensor

### Robust Aluminium Construction

### Optional Heating System

### Key Features

- Compact Wind Speed & Direction Sensor
- Hard Anodised Aluminium Alloy Construction
- -40°C Operation (with optional heating)
- NMEA output
- Impact Resistance to UL2218 Class 1
- Maintenance Free



The Gill WindSonic M utilises Gill's proven ultrasonic technology that has a proven performance over many years of operation in the popular WindSonic.

With an impact resistant, corrosion-free 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. The WindSonic M 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

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

### Output

Outputs	RS232 + RS422 + RS485 + NMEA*
Baud Rate	2400 to 38400

### Power Requirement

Anemometer	5-30 VDC (5.5mA @ 12V)
Optional heating (24V supply recommended)	24 VAC/DC (3.5A @ 24V) or 12 VAC/DC (2.1A @ 12V)
	Start up time < 5 seconds

### Mechanical

External Construction	Al. Alloy 6082 T6
Finish	Hard Anodised
Size	142mm x 160mm
Weight	0.9kg

### Environmental

Protection Class	IP66
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
EMC	EN 61326: 1998 & BSEN 60945
Impact Resistance	UL2218 Class 1

### Operational

Warranty	2 years
Factory Calibration	Traceable to National Standards

### Accessories

Pipe Mounting	44.45mm (1.75 in) diameter
Windview Software	Display/logging
Cables	Available to match output options
Display	See Gill display datasheet

\* NMEA 0183

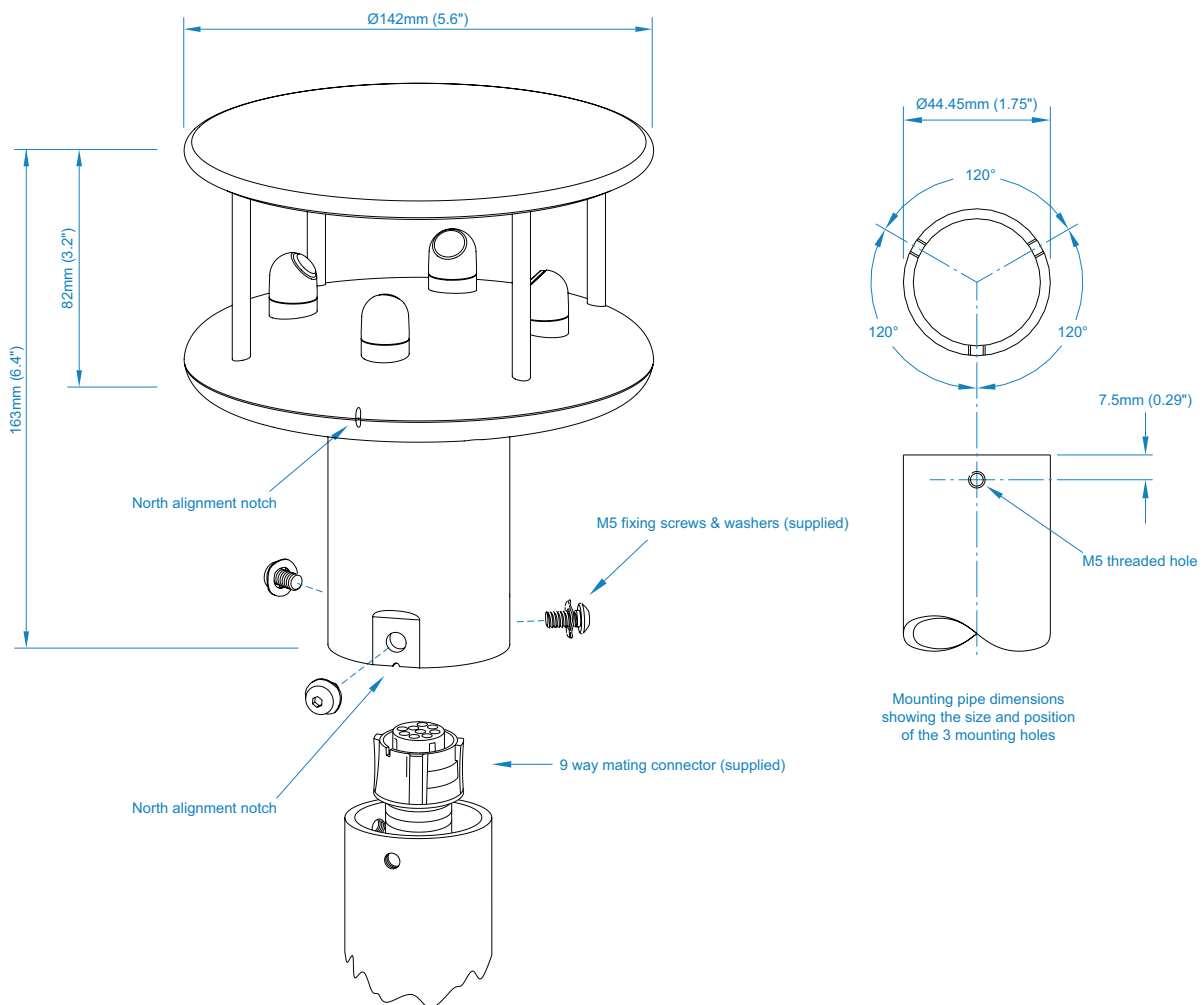
\*\* Download software free from [www.gill.co.uk](http://www.gill.co.uk)

# WindSonic™ M

## Ultrasonic Wind Sensor

### Typical Applications

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



Specifications may be subject to change without prior notice.



**Gill Instruments Ltd**  
Saltmarsh Park  
67 Gosport Street  
Lymington  
Hampshire  
SO41 9EG, UK

T: +44 (0) 1590 613 500  
F: +44 (0) 1590 613 555  
E: [anem@gill.co.uk](mailto:anem@gill.co.uk)

[www.gill.co.uk](http://www.gill.co.uk)



Copyright © Gill Instruments 2012

1405-0029 Iss 1

Gill Instruments Ltd

Reg No. 3154453 Registered Office: The George Business Centre, Christchurch Road, New Milton, BH25 6QJ