

WindSonic M 超声波风速风向仪

英国 Gill 公司的 WindSonic M 超声波风速风向仪应用了业已证明的 Gill 公司世界领先的超声波专业技术。该超声波风速风向传感器具有抗冲击性和耐腐蚀的铝合金壳体和另选加热系统，可用于恶劣环境条件，尤其适用于海洋及陆基安装。WindSonic M 超声波风速风向仪没有移动部件，在宽的应用领域免维护工作。

WindSonicM 超声波风速风向仪技术规格

风速

风速范围	0 - 60 m/s (116 Knots)
精度	±2% @ 12m/s
分辨率	0.01m/s (0.02 Knots)
反应时间	0.25 秒
最低值	0.01m/s

风向

风向范围	0 - 359° (无死角)
精度	±3° @ 12m/s
分辨率	1°
反应时间	0.25 秒

测量

超声波输出率	0.25Hz, 0.5Hz, 1Hz, 2Hz 或 4Hz
参数	风速和风向 或 U 和 V (矢量)
测量单位	m/s, knots, mph, kph, ft/min

输出

输出	RS232+RS422+RS485 +NMEA*
波特率	2400 - 38400

电源要求

风速风向仪	5-30 VDC (5.5mA @ 12V)
另选加热	24 VAC/DC (3.5A @ 24V) 或

(推荐 24V 供电)	12 VAC (2.1A @ 24V)
	启动时间 < 5 秒

材料

外部结构	铝合金 6082 T6
表面处理	硬阳极氧化
尺寸	142mm x 160mm
重量	0.9Kg

环境

防护等级	IP66
工作温度	-40°C 到 +70°C (带加热) -35°C 到 +70°C (不带加热)
储存温度	-40°C ~ +80°C
湿度	< 5% 到 100% RH
EMC	EN 61326:1998 & BSEN 60945
耐冲击性	UL2218 等级 1

工作

工厂校准	国家标准溯源
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可选配件(需另购)

安装管	直径 44.45mm
WindView 软件	显示/采集
电缆	相匹配的电缆选择
显示器	见 GILL 显示器规格

典型应用

野外气象监测站
 大楼控制
 数据浮标
 海洋船只
 道路和铁路隧道
 环境
 港口
 车载移动气象监测
 远途机场和直升机停机坪
 海岸气象监测站

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.

西安威瑞贸易有限公司 主营全球知名：无损检测设备气象科学仪器设备

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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	5-30V DC (5.5mA @ 12V)
Optional heating**	24V AC/DC (4.2A @ 24V)
	Start up time < 5 seconds

* NMEA 0183

** Consult the technical manual for optimum heating supply voltage.

*** Download software free from www.gill.co.uk

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

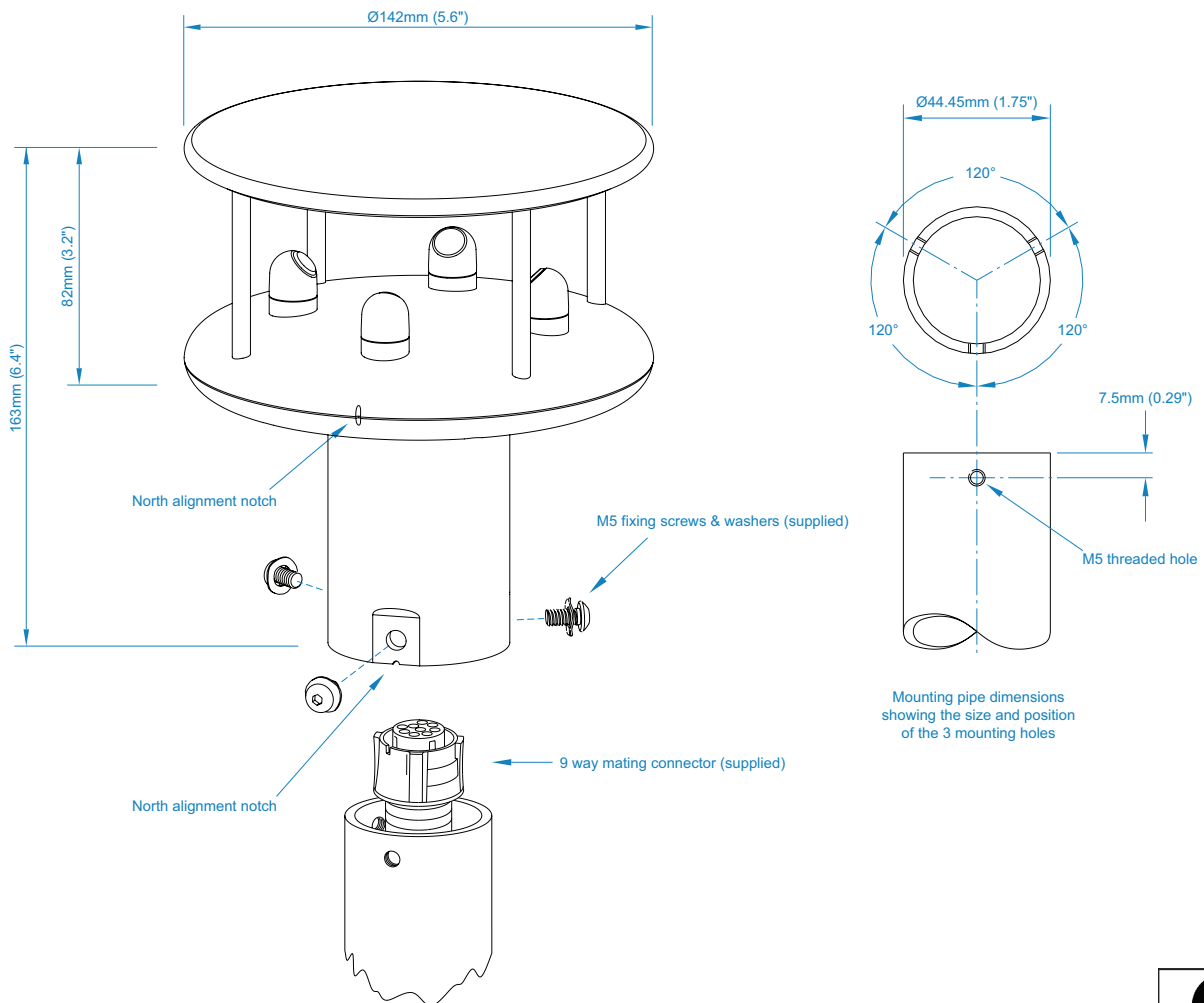
Pipe Mounting	44.45mm (1.75 in) diameter
Windview Software	Display/logging***
Cables	Available to match output options
Display	See Gill display datasheet

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.



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