

Meteo M&R

ultrasonic wind measurement



WindSonic

ACCURATE ULTRASONIC

NO MOVING PARTS

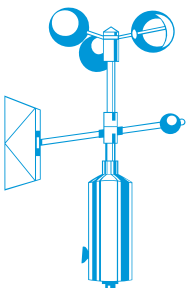
WIND SPEED & DIRECTION MEASUREMENT

LIGHT WEIGHT, ROBUST, MAINTENANCE FREE

GILL

INSTRUMENTS

WindSonic from Gill Instruments is a real low cost alternative to conventional cup/ vane/ propeller wind sensors in a single unit. Ideal for applications that demand economic wind sensing, WindSonic is suitable for land-based and marine environments. A lightweight unit, WindSonic is of a robust, high strength construction and is maintenance free.



ingenieursbureau **wittich & visser**

scientific and meteorological instruments

ultrasonic wind measurement

WindSonic

FEATURES

- Low Start Speed
- Corrosion Free
- Low Power
- No Calibration Required
- Robust Construction
- True 0-359° Operation (no dead band)
- Wind Speed & Direction: Single Unit
- Available in Black & White

A real low cost alternative to conventional cup/ vane/ propellor wind sensors in a single unit - WindSonic from Gill Instruments

WindSonic is based on Gills existing, highly successful, proven ultrasonic technology. Ideal for applications that demand economic wind sensing, WindSonic is suitable for land-based and marine environments.

A lightweight unit, WindSonic is of a robust, high strength construction designed to withstand installation and use with no fear of the damage commonly experienced with more fragile cups, vanes or propellers. Without the need for expensive on-site calibration or maintenance and with a corrosion free exterior, WindSonic is a true fit and forget unit.

Ensuring accuracy and reliability, WindSonic automatically transmits an anemometer status code with each output to indicate its operating status. Available in 4 options, providing a number of different digital and analogue outputs.

Maintenance free, quick to install, WindSonic is designed to be mounted using a standard pole fitting.



APPLICATIONS

- Agriculture
- HVAC
- Pollution control
- Portable weather stations
- Roadside weather stations
- Tunnels
- Marine & offshore

TECHNICAL SPECIFICATIONS

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 sec
Threshold	0,01 m/s

WIND DIRECTION

Range	0..359° (no dead band)
Accuracy	±3° @ 12 m/s
Resolution	1°
Response time	0,25 sec

MEASUREMENT

Output	0,25/ 0,5/ 1/ 2/ 4 outputs per sec
Parameters	Wind Speed & Direction or U and V (vectors)
Units of measure	m/s, knots, mph, kph, ft/min

OUTPUTS

Option 1	RS232 + NMEA
Option 2	RS232 + RS422 + RS485 + NMEA
Option 3	RS232 + RS422 + RS485 + NMEA + 0..5V or 0..20mA or 4..20 mA
Baud rate	2400 .. 38400
Anemometer status	Supplied as part of standard message

REMARKS

MTBF	15 years
Op. 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
	From 9mA @ 12V
	Start up time < 5 sec

MECHANICAL

External construction	LURAN S KR 2861/1C ASA/PC
Size	142 x 160 mm
Weight	0,5 kg

ENVIRONMENTAL

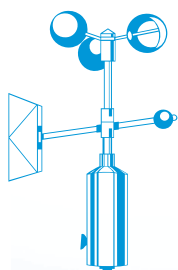
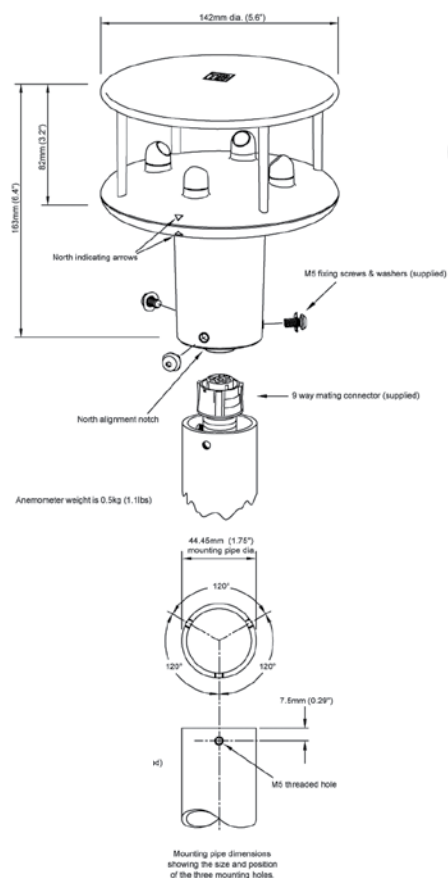
Protection class	IP65
Operating temperature	-35°C.. +70°C
Storage temperature	-40°C.. +80°C
Operating humidity	< 5% to 100% RH
EMC	EN61326: 1998

ACCESSORIES

Pipe mounting	44,45 mm in diameter
Wind software	Display/Logging
Cables	Available to match output options
Display	See Gill Display



DIMENSIONS



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made to measure