

# Meteo M&R

## ultrasonic wind measurement



## WindSonic

ACCURATE ULTRASONIC

NO MOVING PARTS

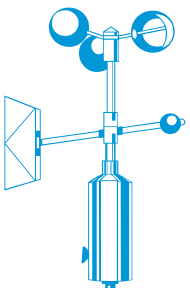
WIND SPEED & DIRECTION MEASUREMENT

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

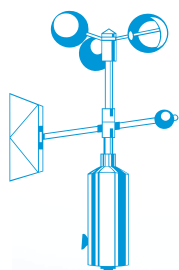
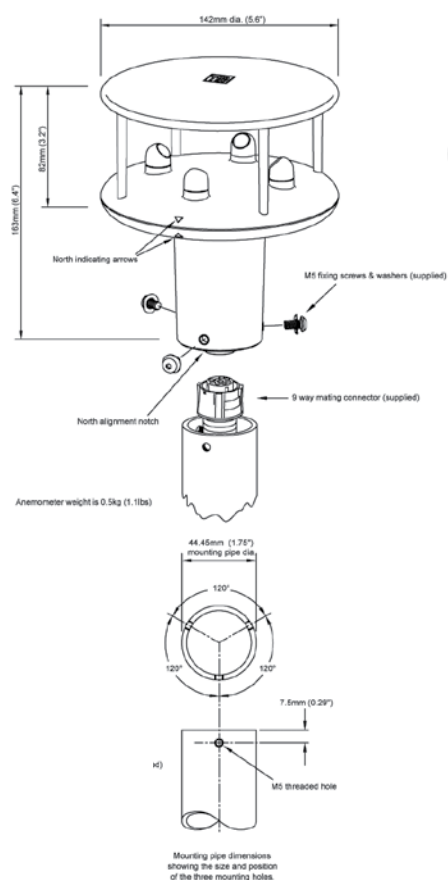
Protection class	IP65
Operating temperature	-35°C.. +70°C
Storage temperature	-40°C.. +80°C
Operating humidity	< 5% to 100% RH
EMC	EN61326: 1998

#### 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