

Ultrasonic Wind Sensor



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- Decreased down time and service costs
- Continuous operation in extreme weather conditions
- Reduced set up and installation time

The WindObserver II provides the best solution on the market for reliable, accurate and cost-effective 2 axis wind measurement. It combines the latest patented advances in ultrasonic technology together with Gill's ten years experience as the recognised world-leading supplier of all-weather ultrasonic wind sensors. The elimination of moving parts, together with a rugged stainless steel construction, means that WindObserver II is virtually maintenance free and requires no calibration on site. The heated head keeps the unit free from ice and snow, providing continuous use even in the most extreme weather conditions. A new flexible design ensures that the WindObserver II can be configured by the user to their exact requirements, which may include analogue outputs, 10 Hz output, heating or sonic temperature. The Windows™ based *Anemcom II* communications package allows the user to operate the anemometer in a various modes, permitting the measurement of U & V vectors or wind speed and direction. Communication is via an RS422 bi-directional link, which allows several units to be networked together and data to be logged on demand. The WindObserver II, like all wind sensors supplied by Gill, is rigorously tested to internationally recognised standards and meets the stringent performance criteria specified by meteorological, naval and airport authorities and oil and utility companies around the world.



FEATURES

- Enhanced anti-icing design
- Analogue outputs
- NMEA output
- User selectable output format
- 1, 4 or 10 Hz output
- Sonic temperature
- Communications software
- Calibration to national standards

APPLICATIONS

- Meteorological
- Wind turbines
- Transport
- Tunnels
- Motorways
- Bridges
- Military
- Marine
- Aviation

2 Axis Ultrasonic Wind Sensor

SPECIFICATION

Measurement

Output	1Hz, 4Hz, 10Hz
Parameters	UV, Polar, NMEA, Tunnel
Units	m/s, Knots, MPH, KPH ft/min
Averaging	Flexible 1-3600 seconds

Wind Speed

Range	0 - 65m/s (0-145mph)
Accuracy	2%
Resolution	0.01m/s
Offset	±0.01m/s

Direction

Range	0 - 359°
Accuracy	± 2°
Resolution	1°

Sonic Temperature

Range	-40°C to + 70°C
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Anemometer Status

Supplied as part of standard message

Starting Threshold

0.01 m/s

Dead Band Wind Direction

None

Power Requirement

Anemometer only	9-30 V DC (40mA @ 12VDC)
Heating - Optional	3A @ 24V AC or DC

Digital Output

Communication	RS422, full duplex, network facility
Baud rates	1200, 2400, 4800, 9600, 19200, 38400
Formats	8 data, odd, even or no parity

Analogue Output - Optional

Quantity	3 (speed, direction, status or sonic temperature)
Scale	Multiples of ± 10m/s up to ± 70m/s
Type	± 2.5V, 0-5V or 4-20mA
V output resistance	60 Ohms
4-20mA loading	10-300 Ohms

Dimensions

Size	405mm x 210mm
Weight	1.5kg

Materials

External Construction	Stainless Steel 316
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Environmental

Moisture protection	IP66 (NEMA4X)
Operating temperature	-55°C to +70°C
Humidity	5% to 100% RH
Precipitation	300mm/hr
EMC	BS EN 50081-1: 1992 (Emissions class B) BS EN 50082-2: 1992 (Immunity) FCC class A
Icing	MILSTD810E Method 521.1 Procedure 1

Standards

Traceable to NAMAS standards

Site Calibration

None required



DISTRIBUTOR



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