

Meteo M&R

ultrasonic wind measurement



WindObserver II

ACCURATE ULTRASONIC

WIND SPEED & DIRECTION MEASUREMENT

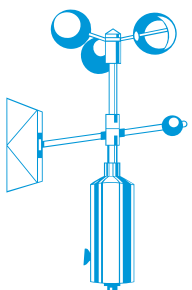
NO MOVING PARTS, ROBUST, MAINTENANCE FREE

LLOYD'S TYPE APPROVAL

GILL

INSTRUMENTS

The WindObserver II provides the best solution on the market for reliable, accurate and cost-effective wind speed and directional measurement. It combines the latest patented advances in ultrasonic technology together with Gill's fifteen years experience as the recognised world leading supplier of all-weather ultrasonic wind sensors.



ingenieursbureau **wittich & visser**

scientific and meteorological instruments

WindObserver II

FEATURES

- Ultrasonic Technology
- Maintenance Free
- Robust Construction
- Lloyd's Type Approval
- Optional Low Temperature De-Icing

The WindObserver II provides the best solution on the market for reliable, accurate and cost-effective wind speed and directional measurement. It combines the latest patented advances in ultrasonic technology together with Gill's fifteen 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.

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.

APPLICATIONS

- Transport Safety
- Wind Turbine Control
- Ship Dynamic Positioning Systems
- Aircraft Landing Systems
- Meteorological Systems
- Structural Safety



The Windows™ based WindCom communications package allows the user to operate the anemometer in various modes, permitting the measurement of U & V vectors or wind speed and direction. Communication is via an RS422/RS485 bidirectional link, which allows several units to be networked together and data to be logged on demand.

The WindObserver II has been rigorously tested to internationally recognised standards and meets the stringent performance criteria specified by airport, marine, oil, production, meteorological and utility organisations around the world.



measurement

TECHNICAL SPECIFICATIONS

WIND SPEED

Range	0..65 m/s
Starting treshold	0,01 m/s
Accuracy	±2% @ 12 m/s
Resolution	0,01 m/s
Offset	±0,01 m/s

WIND DIRECTION

Range	0..359° (no dead band)
Accuracy	±2° @ 12 m/s
Resolution	1°

SONIC TEMPERATURE

Range	-40..+70°C
-------	------------

MEASUREMENT

Output	1Hz, 2Hz, 4Hz, 5Hz, 8Hz, 10Hz
Parameters	UV, Polar, NMEA, Tunnel
Units	m/s, knots, mph, kph, ft/min

DIGITAL OUTPUT

Communication	RS232/RS485 full duplex, half duplex
Baud rates	1200, 2400, 4800, 9600, 19200, 38400
Formats	8 bit data; odd, even or no parity
Anemometer status	Supplied as part of standard message

POWER REQUIREMENT

Anemometer only	90-30 VDC (40mA @ 12VDC)
Heating optional	3A @24 VAC or DC

ANALOGUE OUTPUT - OPTIONAL

Quantity	3 (speed, direction, status or sonic temp)
Scale	Multiples of ±10 m/s up to ±70 m/s
Type	±2,5V, 0-5V or 4-20mA
V output resistance	60 Ohms
4-20mA loading	10-300 Ohms

MECHANICAL

External construction	Stainless Steel 316
Size	381 x 213 mm
Weight	1,4 kg

ENVIRONMENTAL

Protection Class	IP66 (NEMA4X)
Humidity	< 5% to 100%
Operating temperature	-55..+70°C (heated option)
Precipitation	300 mm/hr
EMC	EN 61000-6-2:2001, EN 61000-6-3:2001
Icing	MILSTD810E Method 521.1 Procedure 1

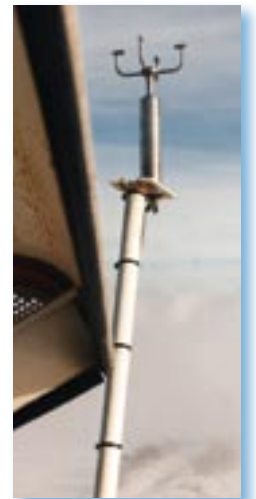
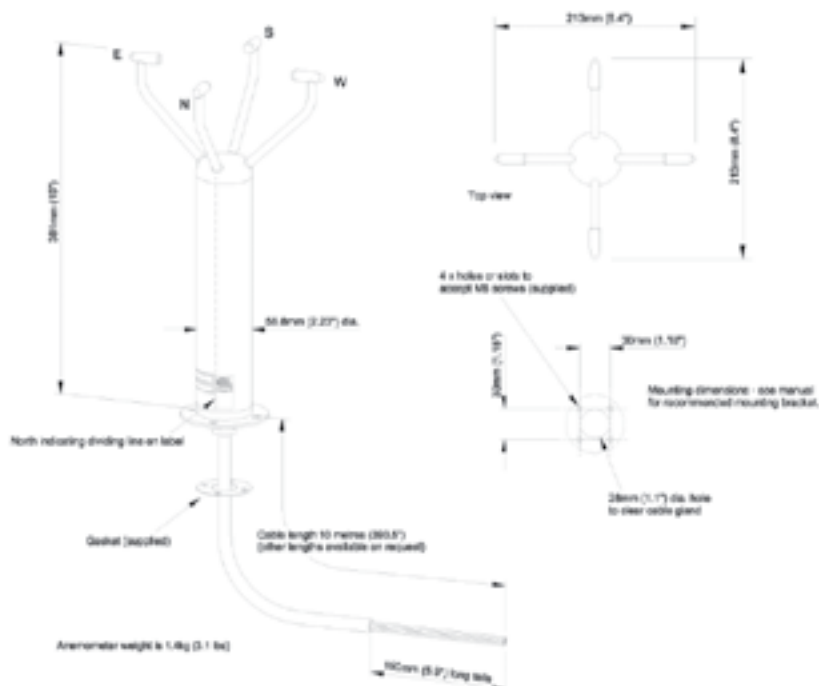
APPROVALS

Standards	Traceable to NAMAS standards Lloyd's Register Type Approved
Site calibration	None Required. Integrity Check Unit (Zero wind) supplied as optional extra

ACCESSORIES

Pipe mount	Contact us
Windview software	Display/Logging software
WindCom software	Configuration, Display & Logging software

DIMENSIONS





INGENIEURSBUREAU WITTICH & VISSER

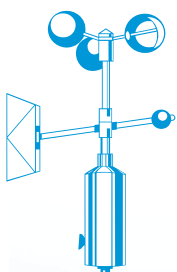
Ingenieursbureau Wittich & Visser was founded in 1924 and since then specialized in scientific and meteorological instruments. Worldwide leading companies and public institutes rely on the knowledge of Wittich & Visser about setting up and installing meteorological Instruments. We are **made to measure**.

It is the complete measurement set up that counts, not the individual Instruments. We at Wittich & Visser want the best solution for your answer. With our partners and our wide expertise of set up and installation of meteorological measurements, we can give you the best solution, service and instruments.

For more information, visit our website:
www.wittich.nl



Our office at the Handelskade in Rijswijk, the Netherlands



ingenieursbureau **wittich & visser**

scientific and meteorological instruments

handelskade 76
2288 bg rijswijk
the netherlands

p.o.box 1111
2280 cc rijswijk
the netherlands

tel. +31 70 3070706
fax +31 70 3070938

www.wittich.nl
info@wittich.nl