



# GILL

## WINDOBSERVER II

Robust ultrasonic wind sensors for challenging environments

### PRODUCT OVERVIEW

The Gill WindObserver II is a precision, solid-state ultrasonic anemometer which has been type approved by the Lloyds Register for use in marine and offshore applications.

The WindObserver II provides wind speed and direction data via 1 digital and 3 optional analogue outputs and features and IP66 rated stainless steel housing, which is particularly suitable for use in salt-water environments.

Offering a high wind speed measurement range, this anemometer has an optional de-icing system enabling the sensor to operate effectively in environmental conditions.

### KEY FEATURES & BENEFITS

- 01** Precision Ultrasonic Anemometer
- 02** 0-65m/s Wind Speed
- 03** 0-360° Wind Direction
- 04** Optional De-Icing System
- 05** Stainless Steel construction
- 06** Lloyds Register Type Approved
- 07** American Bureau of Shipping (ABS) product design assessed (PDA)

### TYPICAL APPLICATIONS

- Aircraft landing systems
- Marine vessel dynamic positioning systems
- Wind turbine control systems
- Ports & harbours
- Road & rail monitoring
- Power generation and transmission safety

Optional de-icing system enabling the sensor to operate effectively at high altitude or in freezing rain



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## TECHNICAL SPECIFICATION

Wind Speed	
Range	0 - 65 m/s (0-145mph)
Accuracy	<2% RMSE @ 12m/s
Resolution	0.01 m/s
Starting threshold	0.01 m/s
Offset	±0.01 m/s
Wind Direction	
Range	0 - 360°
Accuracy	<2° RMSE @ 12m/s
Resolution	1°
Dead band direction	none
Measurement	
Output rate	1Hz, 2Hz, 4Hz, 5Hz, 8Hz or 10Hz
Parameters	UV, Polar, NMEA, Tunnel
Units	m/s, knots, mph, kph, ft/min
Average (selectable)	Rolling average - 1, 2, 10 m.n, Gust - 3s
Block average	0-3600s
Digital output	
Communication	RS422/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
Analogue output	
Quantity	3 (Speed, direction, status or sonic temp)
Scale	Multiples of ±10 m/s up to ±70
Type	±2.5 V, 0-5 V or 4-20mA
V output resistance	60 Ohms
4-20mA loading	10-300 Ohms

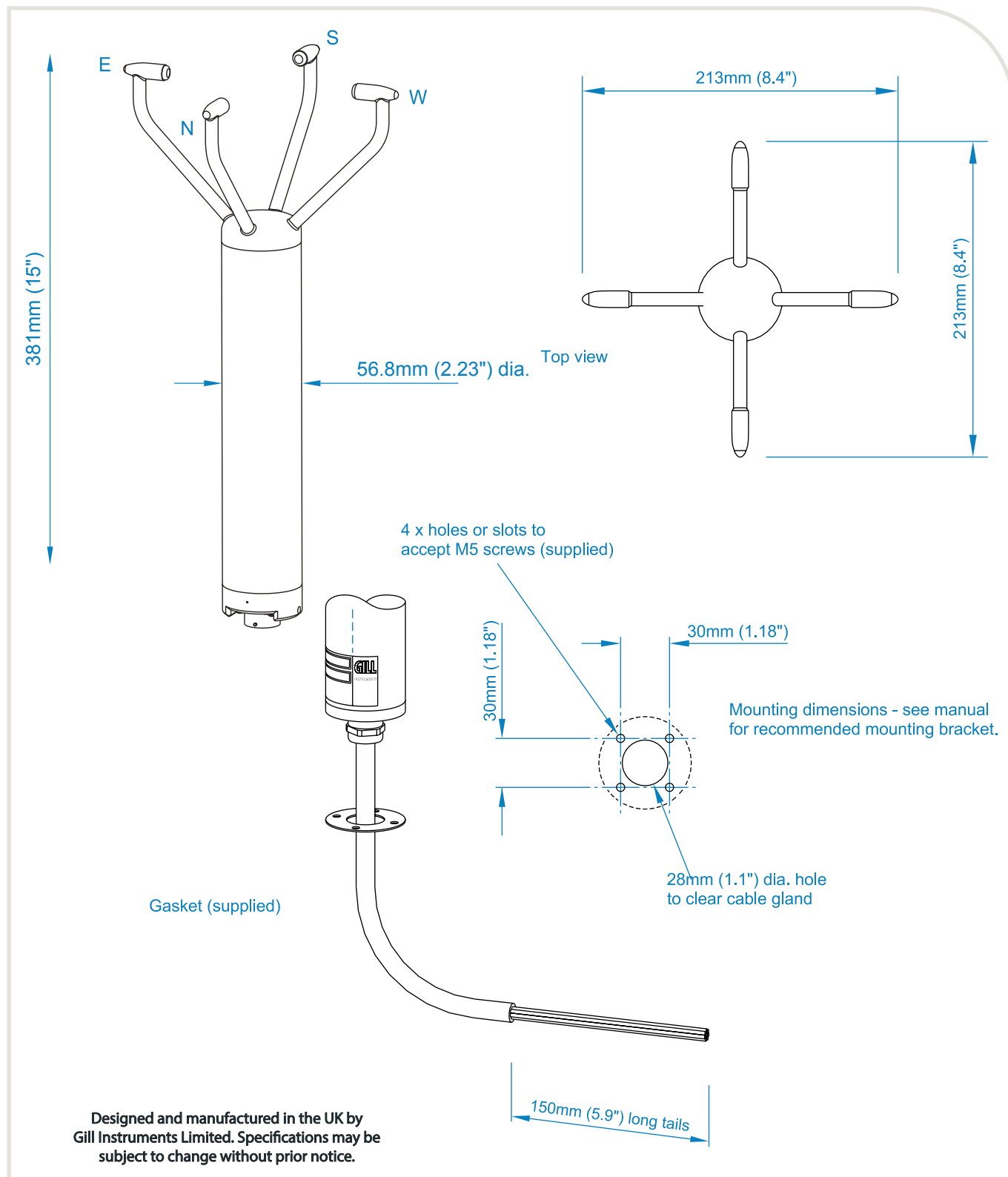


Power requirement	
Anemometer only	9-30 VDC (40mA @12 VDC)
Heating (optional)	3A @24 VAC or DC
Mechanical	
External construction	Stainless steel 316
Size	1.4kg
Environmental	
Protection class	IP66 (NEMA4X)
Humidity	< 5% to 100% RH
Operating temperature	-55°C to +70°C (with heating)
Precipitation	300mm/hr
EMC	EN61326-1: 2013, EN60945:2002
Icing	MILSTD810F Method 521.2 Procedure I
Approvals	
Standards	Lloyds Register type approval ABS Product design assessed
Site Calibration	None required. Integrity check unit (Zero wind) supplied as optional extra(Zero wind)
Operational	
Factory calibration	Traceable to National standards
Accessories	
Pipe mount	Contact Gill
WindView Software	Display/logging software

\* Download software free from [gillinstruments.com](http://gillinstruments.com)

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## MORE INFO

For more information about Gill's WindObserver range, please email [contact.gi@gill.group](mailto:contact.gi@gill.group)