



GILL

WINDOBSERVER 65

Robust ultrasonic wind sensors for challenging environments

PRODUCT OVERVIEW

The Gill WindObserver 65 is a precision, solid-state ultrasonic anemometer providing wind speed and direction data via a digital output and features an IP66 rated stainless steel housing, which is particularly suitable for use in saltwater environments.

This anemometer has an optional de-icing system enabling the sensor to operate effectively in environmental conditions experienced at high altitude or at sea and is recommended for use in aviation, marine and offshore applications.

KEY FEATURES & BENEFITS

- 01** High quality wind measurements up to 65m/s (234km/h)
- 02** 0-360° Wind direction
- 03** Optional de-icing system
- 04** IP66 rated stainless steel construction
- 05** Easy to install and long operational life.
- 06** Connector, cable exit and base mount options
- 07** On-board calculation of averages & gusts according to WMO guidelines

TYPICAL APPLICATIONS

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



WindObserver features an IP66 rated stainless steel housing, suitable for use in saltwater environments

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TECHNICAL SPECIFICATION

Wind Speed	
Range	0 - 65 m/s (0-145mph)
Accuracy	<2% RMSE or 0.2m/s RMSE, whichever is greater (0-65m/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 (0-65m/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 Modbus RTU
Anemometer status	Supplied as part of standard message

Accessories	
Pipe mount	Contact Gill
Software	WindView software for displaying data*



Power requirement	
Anemometer only	9-30 VDC (30mA @12 VDC)
Heating (optional)	3A @24 VAC or DC

Mechanical	
External construction	Stainless steel 316
Size	Refer to diagram overleaf
Weight	1.4kg

Environmental	
Protection class	IP66 (NEMA4X)
Humidity	0% to 100% RH
Operating temperature	-55°C to +70°C (with heating)
Precipitation	300mm/hr
EMC	EN 60945:2002, EN 61326-1:2013
Icing	MILSTD810F Method 521.2 Procedure I

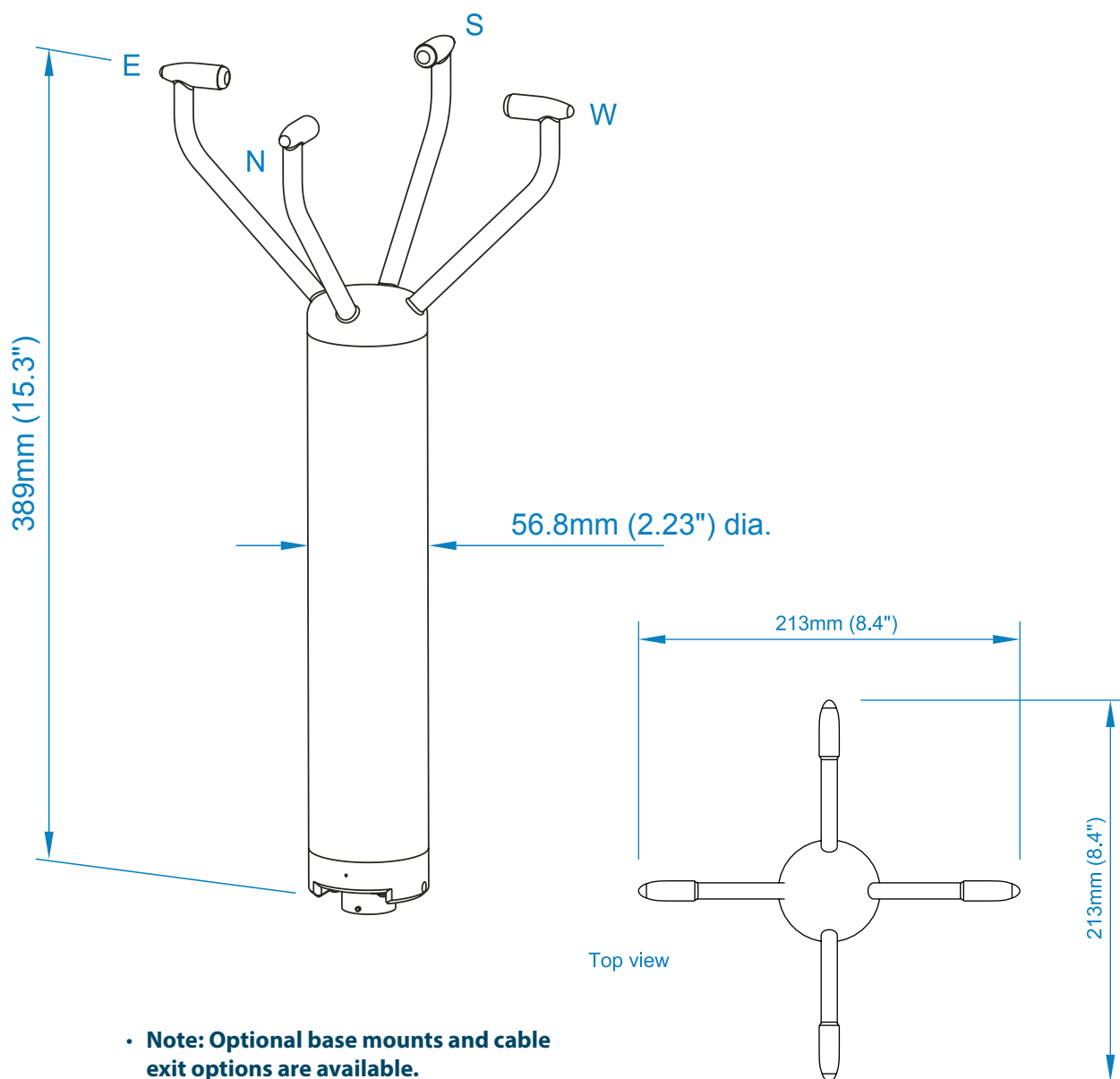
Approvals	
Approvals	Lloyds register type approval

Operational	
Site calibration	None required. Integrity check unit (Zero wind) supplied as optional extra(Zero wind)
Factory calibration	Traceable to National Standards

* Download software free from gillinstruments.com

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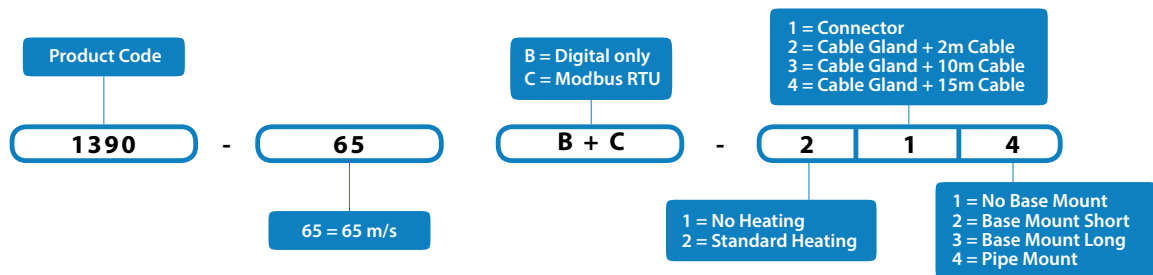


Designed and manufactured in the UK by
Gill Instruments Limited. Specifications may be subject to
change without prior notice.

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WindObserver product numbers explained



Connection options

Drawings below shown without base mounts

WindObserver fitted with cable gland and flying lead

WindObserver fitted with integral connector

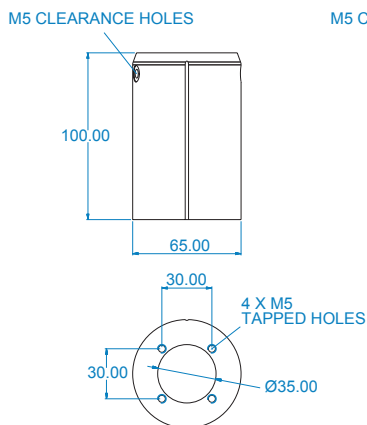
Gasket (supplied)

Cable length options
2m, 10m & 15m

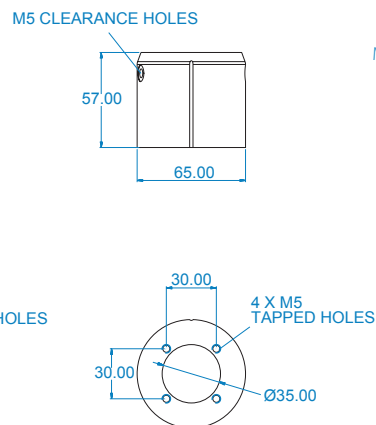
150 mm (5.9") fios longos

Base & Pipe mount options

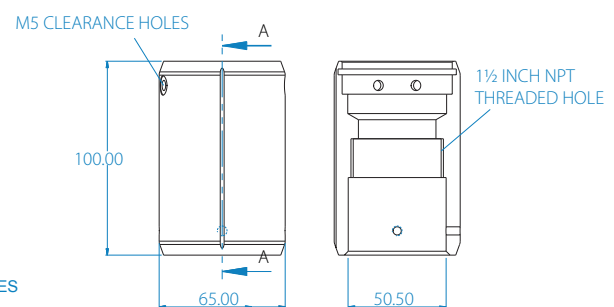
Base mount support



Base mounting long



Pipe mount



All options are supplied with appropriate fixing screws and washers.

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1390-0036 Issue 12
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MORE INFO

For more information about Gill's WindObserver range, please email contact.gi@gill.group