陕西威瑞仪器仪表有限公司 生产代理销售:实验检测设备气象科学仪器设备 Tel: 18966887800 Web: www. xavery.cn Email: verytrade@163.com

WindObserver[™]

Ultrasonic Anemometer

Key Features

- Heating power 7A @ 24VAC or DC (1W/cm²)
- 0-75m/s wind speed range
- 0-359° wind direction range (no dead band)
- Wind speed accuracy for turbine control ±1% within ±25° of datum
- Calibration traceable to national standards
- IP66 rated stainless steel construction
- Optional base mounts/cable exit
- Averaging/gusts to WMO guidelines

The WindObserver 75 has been developed for measuring higher wind speeds in extreme weather environments featuring 150 Watts of electrical heating power in the anemometer head. This anemometer has been designed to remain ice free in most freezing weather conditions. The sensor provides data via RS422/RS485 bidirectional link, which allows several units to be networked together and data logged on demand.

With innovative transducer design, this anemometer boasts a very high wind speed range of 0 - 75 m/s (0-168mph) and gives an output status indicating the validity of data, so that you can be confident that the instrument is providing accurate information. Constructed from Stainless steel this anemometer meets the stringent performance criteria specified by wind turbine manufacturers, airports, marine, oil and gas production, and meteorological organisations around the world.

TYPE PPROVED

Customer selectable vector rolling average and 3 second gust in accordance with WMO - No. 8 Seventh Edition 2008 ISBN 978-92-63-10008-5.

WIND SPEED

Range	0 - 75 m/s (0-168mph)
Starting threshold	0.01 m/s
Accuracy	±2% @12 m/s (1% for turbine control)
Resolution	0.01 m/s
Offset	±0.01 m/s

DIRECTION

Range	0 - 359°
Dead band direction	None
Accuracy	±2° @12 m/s (1° for turbine control)
Resolution	1°

MEASUREMENT

Ultrasonic output rate	1 - 4 Hz
Parameters	UV, Polar, NMEA
Units	m/s, knots, mph, kph, ft/min
Average (Selectable)	Rolling average - 1, 2, 10 m.n, Gust - 3s
Block average	0-3600s

POWER REQUIREMENT

Anemometer only	9 - 30 VDC (60mA max, 50mA average)
Heating	Max 7A @24 VAC or DC

DIGITAL OUTPUT

Communication (Operat'n)	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

MECHANICAL

External construction	Stainless steel 316
Size	Refer to diagram overleaf
Weight	1.7kg (with 2m cable) 1.3kg (with connector)

ENVIRONMENTAL

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

APPROVALS

Standards	Traceable to national standards
Site calibration	None required. Integrity check unit (Zero wind) supplied as optional extra





陕西威瑞仪器仪表有限公司 生产代理销售:实验检测设备气象科学仪器设备 Tel:18966887800 Web:www.xavery.cn Email:verytrade@163.com

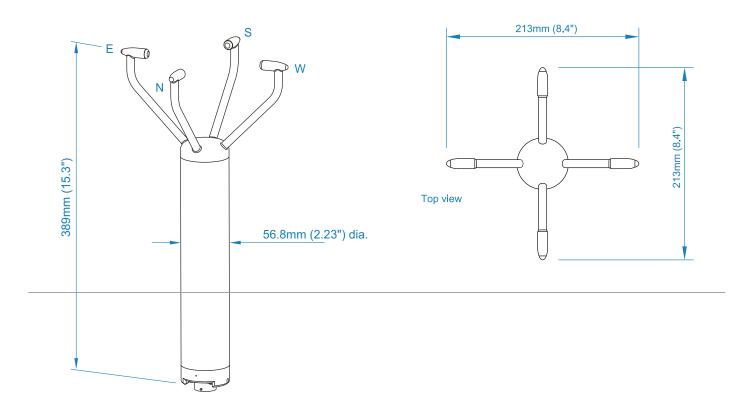
WindObserver[™]75

Typical Applications

- Building controls/structural safety
- High altitude mountainous regions
- Arctic/Antarctic Weather monitoring
- Marine vessels dynamic positioning systems
- Wind turbine control
- Road & rail tunnels/transport safety

Ultrasonic Anemometer

- Ports & Harbours
- Aircraft landing systems



Note: Optional base mounts and cable exit options are available.

Specifications may be subject to change without prior notice.



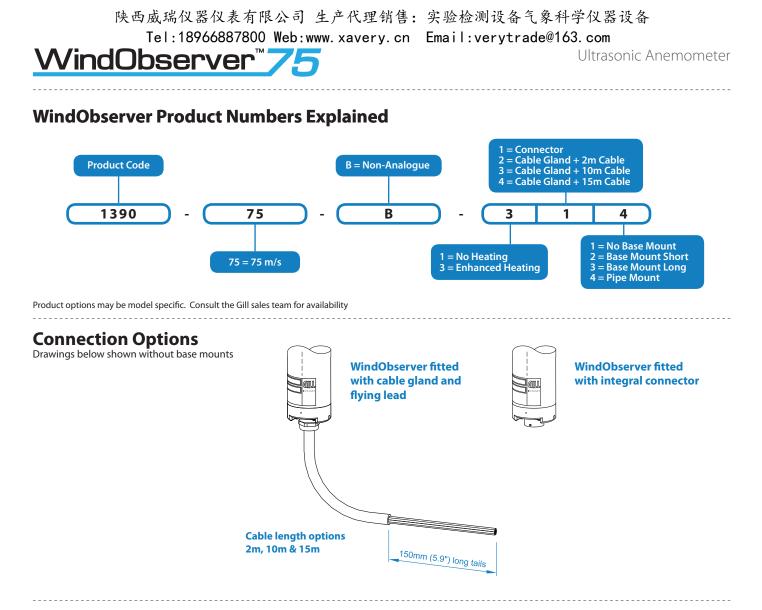
Gill Instruments Limited

Saltmarsh Park, 67 Gosport Street Lymington, Hampshire SO41 9EG United Kingdom

Tel: +44 (0) 1590 613 500 Fax: +44 (0) 1590 613 501 gillinstruments.com

1390-0034 - Iss 9 Copyright © Gill Instruments 2019

Gill Instruments Limited, Reg No. 2281574 Registered Office: Towngate House, 2-8 Parkstone Road, Poole. BH15 2PW



Base & Pipe Mount Options

Base Mount Short

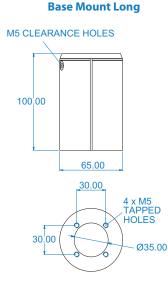


30.00

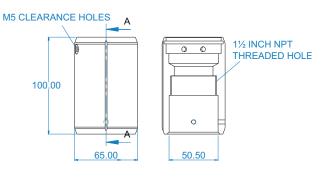
4 x M5 TAPPED

HOLES

Ø35 00



Pipe Mount



All options are supplied with appropriate fixing screws and washers.

Gill Instruments Limited

30.00

Saltmarsh Park, 67 Gosport Street Lymington, Hampshire SO41 9EG United Kingdom

Tel: +44 (0) 1590 613 500 Fax: +44 (0) 1590 613 501



1390-0034- lss 9 Copyright © Gill Instruments 2019

Gill Instruments Limited. Reg No. 3154453 Registered Office: Towngate House, 2-8 Parkstone Road, Poole. BH15 2PW