WindObserver™ 65
Ultrasonic Anemometer

GILL

Key Features

- **Precision Ultrasonic Anemometer**
- **0-65m/s Wind Speed**
- **0-359º Wind Direction**
- **Free Data Logging Software**
- **Optional De-Icing System**
- **Stainless Steel Construction**
- **Sonic Temperature Output**

The Gill WindObserver 65 is a precision, solid-state ultrasonic anemometer providing wind speed and direction data via 1 digital and 3 optional analogue outputs and features an IP66 rated stainless steel housing, which is particularly suitable for use in salt-water 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.

WIND SPEED

Range	0 - 65 m/s (0-145mph)
Starting threshold	0.01 m/s
Accuracy	±2% @12 m/s
Resolution	0.01 m/s
Offset	±0.01 m/s

WIND DIRECTION

Range	0 - 359°
Dead band direction	None
Accuracy	±2° @12 m/s
Resolution	1°

SONIS TEMPERATURE

Range	-40°C to +70°C

MEASUREMENT

Ultrasonic output rate	1Hz, 2Hz, 4Hz, 5Hz, 8Hz or 10Hz
Parameters	UV, Polar, NMEA, Tunnel
Units	m/s, knots, mph, kph, ft/min
Averaging	Flexible 1 - 3600s

DIGITAL OUPUT

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

POWER REQUIREMENT

Anemometer only	9-30 VDC (30mA @12 VDC)
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	±2.5 V, 0-5 V or 4-20mA
V output resistance	60 Ohms
4-20mA loading	10-300 Ohms

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 (Heated option)
Precipitation	300mm/hr
EMC	EN 61000-6-2: 2001, EN 61000-6-3: 2001
Icing	MILSTD810F Method 521.2 Procedure I

APPROVALS

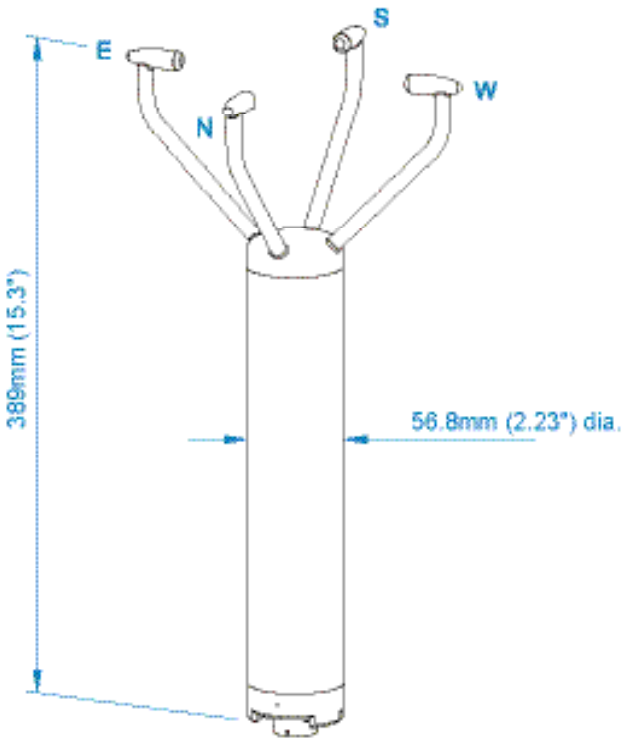
Standards	Traceable to NAMAS standards
Site Calibration	None required. Integrity check unit (Zero wind) supplied as optional extra

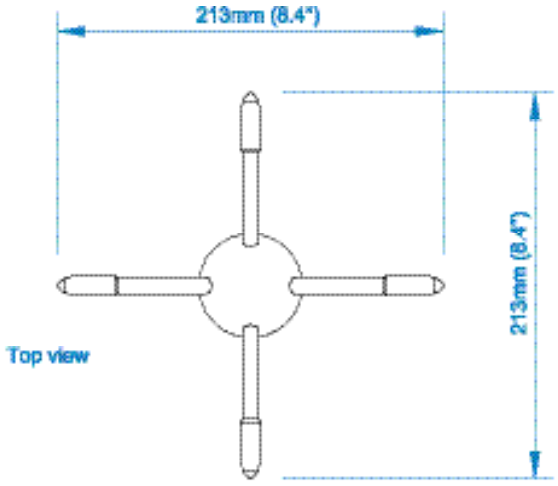
ACCESSORIES

Pipe Mount	Contact Gill
WindView Software	Display/logging software
WindCom Software	Configuration, display & logging software

Typical Applications

- Building Controls/Structural Safety
- High Altitude Mountainous Regions
- Marine Vessel Dynamic Positioning Systems
- Wind Turbine Control
- Road & Rail Tunnels/Transport Safety
- Ports & Harbours
- Aircraft Landing Systems





Specifications may be subject to change without prior notice.

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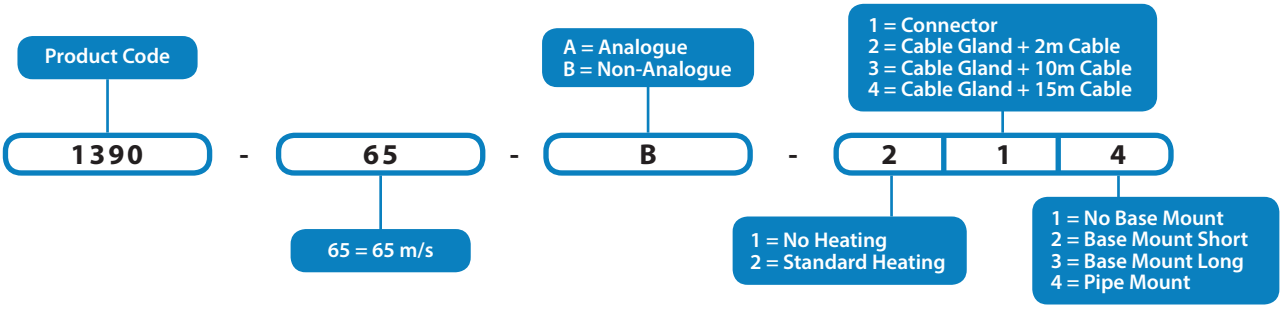
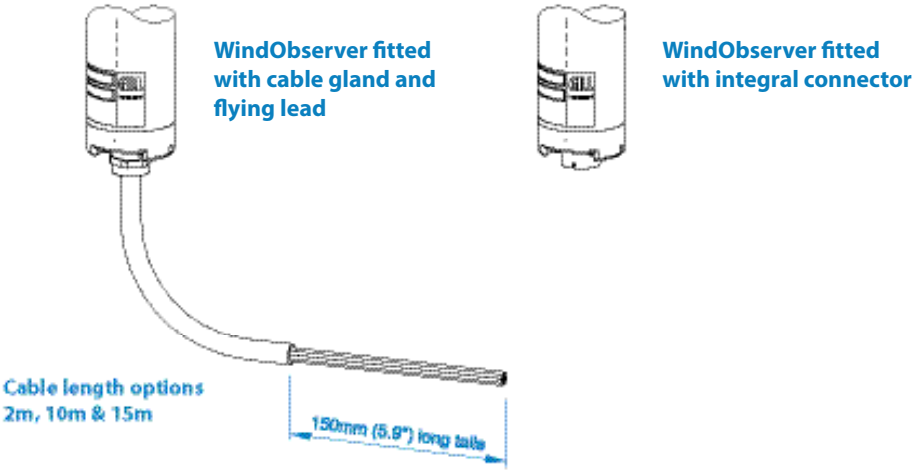
WindObserver Product Numbers Explained



Product options may be model specific. Consult the Gill sales team for availability

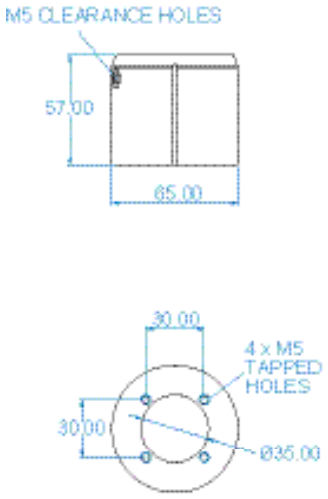
Connection Options

Drawings below shown without base mou

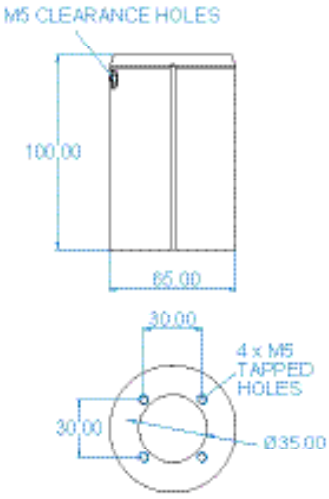


Base & Pipe Mount Options

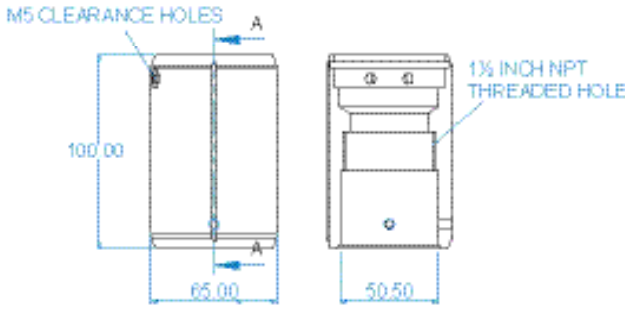
Base Mount Short



Base Mount Long



Pipe Mount



All options are supplied with appropriate fixing screws and washers.

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