# WindObserver™65

## Ultrasonic Anemometer

## 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 (40mA @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 | ±2.5V, 0-5V 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

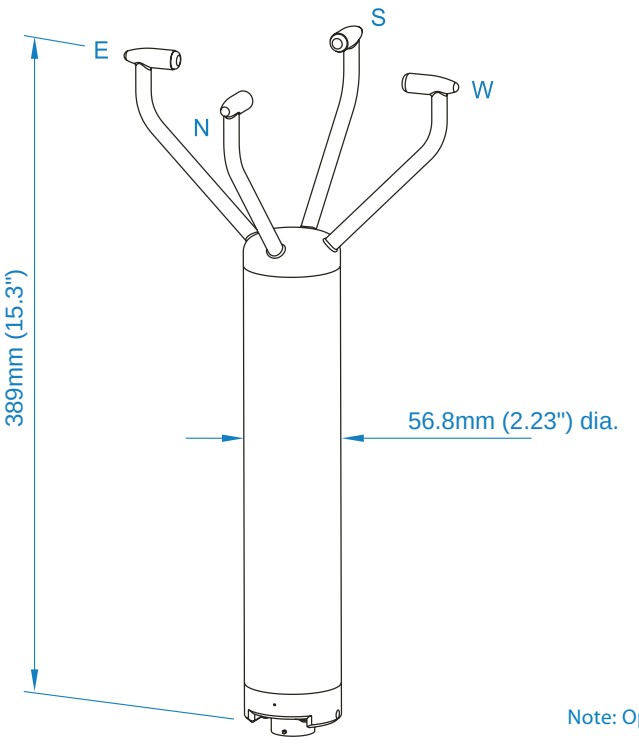
| | |
|---|---|
| Standards | Traceable to NAMAS standards |
| Site Calibration | None required. Integrity check unit (Zero wind) supplied as optional extra |

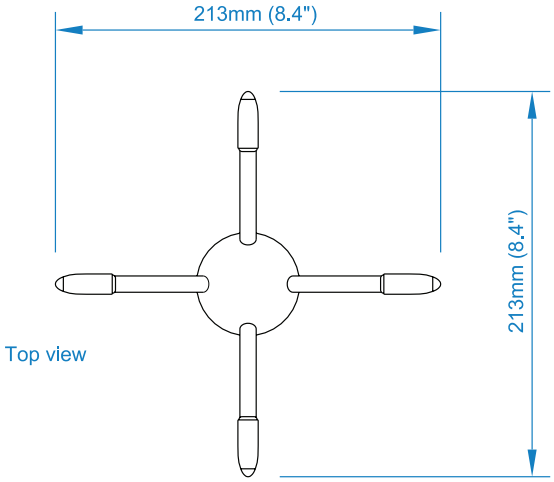
### Accessories

| | |
|---|---|
| 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




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

Specifications may be subject to change without prior notice.

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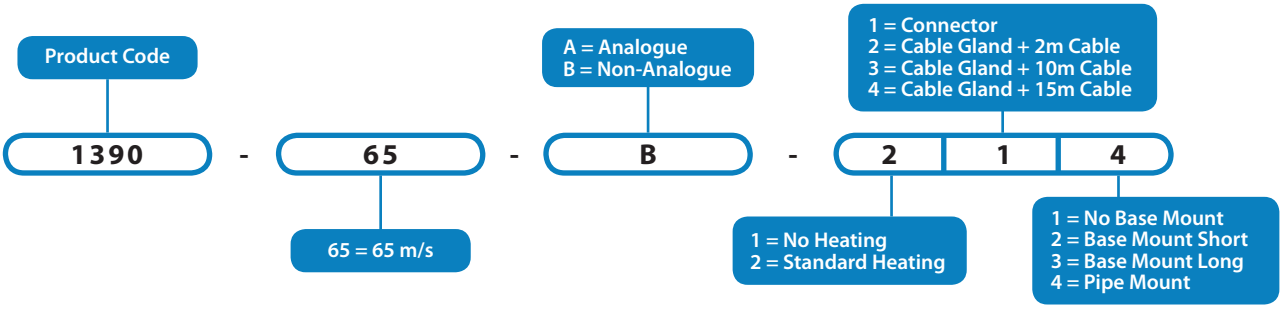
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# WindObserver™ 65

Ultrasonic Anemometer

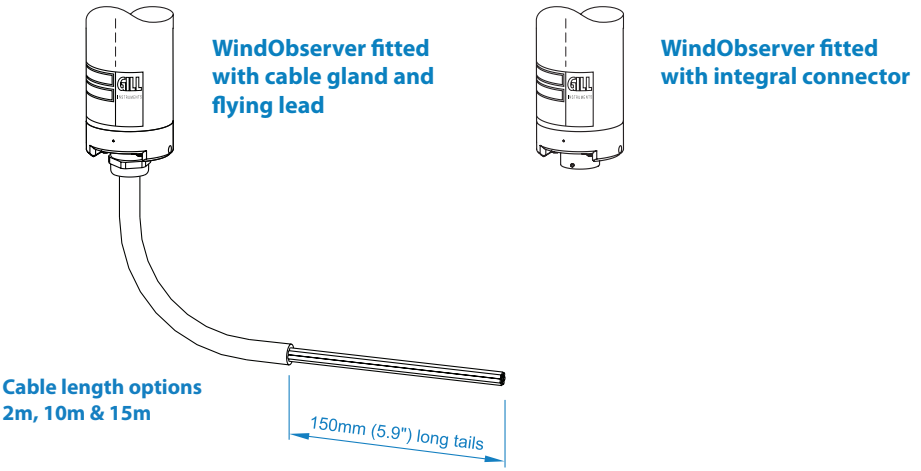
## WindObserver Product Numbers Explained




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

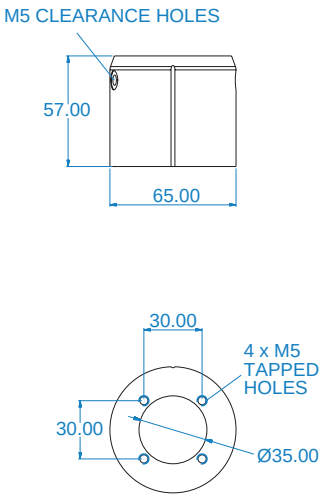
## Connection Options

Drawings below shown without base mounts

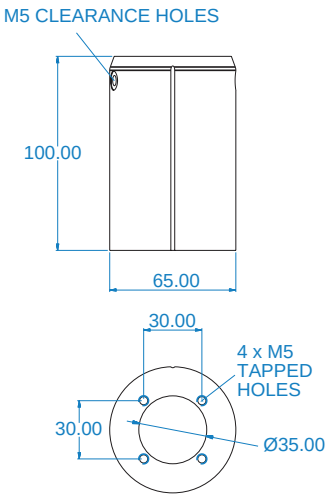



## Base & Pipe Mount Options

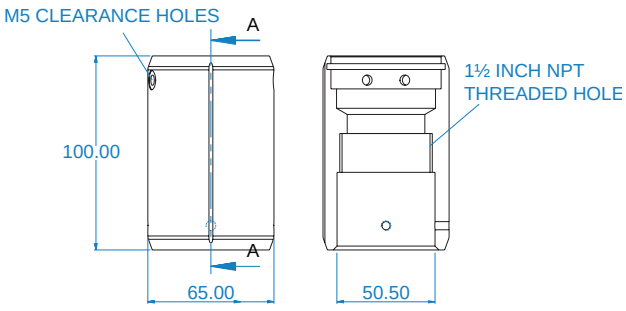
### Base Mount Short




### Base Mount Long




### Pipe Mount




All options are supplied with appropriate fixing screws and washers.

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