

GILL

Wind Speed & Direction Sensors



gillinstruments.com



Gill Instruments has over twenty-five years experience in air flow measurement using ultrasonic technology and is a world leader in the field of wind measurement and weather monitoring. Gill offers the most extensive range of ultrasonic wind speed and direction sensors on the market today.

With headquarters in Lymington, UK, Gill supplies products globally, both directly and through an extensive network of distributors.

The Gill WindObserver and WindSonic range represent the very latest in wind speed and direction measurement technology.

Gill ultrasonic wind sensors are true solid-state devices and have no need for regular maintenance, making them the ideal choice for a wide range of applications, particularly those in hostile environments.



WindObserver

Wind Speed & Direction Sensors for Extreme Conditions

All WindObserver sensors have an IP66 rated stainless steel construction. WindObservers are available with a range of mounting and connection options, and WindObserver IS has approval for use in hazardous petrochemical environments.

WindObserver 65

WindObserver 65 will monitor wind speeds up to 65m/s (145mph) and provides data via digital and optional analogue outputs. This wind sensor is particularly suitable for use in land based and marine environments.

- **Wind Speed Range** 65m/s (145mph)
- **Construction** Stainless Steel
- **Operational Temp** -55°C to +70°C
- **Weight** 1.4kg (50oz)
- **Heating Option** Standard Power
- **Environmental** IP66
- **Analogue Option** ±2.5V, 0.5V or 4-20mA



WindObserver 75

WindObserver 75 will monitor wind speeds up to 75m/s (168mph) and features 150 Watts of electrical heating power in the anemometer head. This sensor has been designed for use in freezing weather conditions.

- **Wind Speed Range** 75m/s (168mph)
- **Construction** Stainless Steel
- **Operational Temp** -55°C to +70°C
- **Weight** 1.4kg (50oz)
- **Heating Option** High Power
- **Environmental** IP66



Base mounting options

WindObserver 70

WindObserver 70 will monitor wind speeds up to 70m/s (157mph) and has been accepted for service by the FAA and CAA for reporting of surface wind in airport applications when supplied as part of a suitable AWOS*.

- **Wind Speed Range** 70m/s (157mph)
- **Construction** Stainless Steel
- **Operational Temp** -55°C to +70°C
- **Weight** 1.4kg (50oz)
- **Heating Option** High Power
- **Environmental** IP66

*Automatic Weather Observing System.

WindObserver 90

WindObserver 90 will monitor wind speeds up to 90m/s (201mph) and features a high power de-icing system together with a robust heavy duty design. The wind sensor is designed for use in tropical cyclones and in high altitude applications.

- **Wind Speed Range** 90m/s (201mph)*
- **Construction** Stainless Steel
- **Operational Temp** -55°C to +70°C
- **Weight** 1.4kg (50oz)
- **Heating Option** High Power
- **Environmental** IP66

*100m/s calibration option available on request

WindObserver IS

WindObserver IS carries Ex ia IIC T4 Ga and Ex ia IIIC T135°C Da IP66 certificates for ATEX and IECEx approvals for use in hazardous areas. This industrial anemometer will monitor wind speeds of 0-75m/s and is particularly suited to offshore oil platform applications. A choice of mains voltage (110 V/220 V) or DC voltage (12 Vdc) power supplies are available. Both units provide power to and receive wind data from WindObserver IS.

- **Wind Speed Range*** 75m/s (168mph)
- **Construction** Stainless Steel
- **Operational Temp** -30°C to +70°C
- **Weight** 1.6kg (57oz)
- **Heating Option** None
- **Environmental** IP66

*Anemometer only.



WindSonic

Compact and Lightweight Wind Speed & Direction Sensors

WindSonic, WindSonic 75 and WindSonic M are low-cost ultrasonic wind speed & direction sensors, monitoring wind speeds up to 75m/s. WindSonic M features an IP66 rated, hard anodised aluminium construction with a heating option for cold environments. All units are supplied with a 2 year warranty.

WindSonic

WindSonic will monitor wind speeds up to 0-60m/s (134mph) in a lightweight, corrosion-free polycarbonate housing and is particularly suited to marine/offshore (ships, data buoys) and land based installations.



- **Max Wind Speed** 60m/s (134mph)
- **Construction** Luran
- **Operational Temp** -35°C to +70°C
- **Weight** 0.5kg (18oz)
- **Heating Option** None
- **Analogue Option** 0.5V, 0-20mA or 4-20mA
- **Environmental** IP66

WindSonic 75

WindSonic 75 will monitor wind speeds up to 0-75m/s (168mph) in a lightweight, corrosion-free polycarbonate housing and is particularly suited to marine/offshore (ships, data buoys) and land based installations.



- **Max Wind Speed** 75m/s (168mph)
- **Construction** Luran
- **Operational Temp** -35°C to +70°C
- **Weight** 0.5kg (18oz)
- **Heating Option** None
- **Analogue Option** 0.5V, 0-20mA or 4-20mA
- **Environmental** IP66

WindSonic M

WindSonic M, with an impact resistant, hard-anodised aluminium housing, will monitor wind speeds up to 60m/s (134mph). With an optional heating system providing enhanced performance at temperatures as low as -40°C, the sensor is particularly suited to harsher industrial conditions.

- **Wind Speed Range** 60m/s (134mph)
- **Construction** Aluminium
- **Operational Temp** -40°C to +70°C
- **Weight** 0.9kg (32oz)
- **Heating Option** Standard Power
- **Analogue Option** 0.5V, 0-20mA or 4-20mA
- **Environmental** IP66, impact resistant to UL2218 Class 1



Gill Instruments Limited

Saltmarsh Park
67 Gosport Street
Lymington
Hampshire

SO41 9EG UK

Tel: +44 (0)1590 613 500

Email: anem@gillinstruments.com



gillinstruments.com

© Gill Instruments Limited.
Gill® is a registered trademark of the Gill Group of Companies.