

Ultrasonic Gill WindObserver II - 2D

Order-No: P 6027 - non heatable
P 6027 H - heatable
P 6027 A - analog with/without heating

- Wind speed and wind direction sensor
- Output rate 1 Hz or 4 Hz,
- Low start up speed (0.01 m/s)
- Approved to EEx ia IIC T5
- No onshore maintenance. Factory calibrated for life
- Stainless steel construction
- Isolated power supply
- NMEA output, No moving parts
- Wind speed range 0-75 m/s Lloyd's type approval



Description

The Intrinsically Safe WindObserver has been developed specifically for use in hazardous areas and in particular for offshore applications. The system combines the latest development in technology with Gill's considerable expertise in the production of solid state anemometers. The Intrinsically Safe WindObserver is a lightweight, robust unit, completely sealed and constructed in stainless steel.

With a low start-up speed (0.01 m/s) and no moving parts, the Gill anemometer exhibits significant benefits over standard three cup anemometers. The Intrinsically Safe WindObserver requires no calibration or maintenance. Wind speed and direction data is provided via a RS422 or RS232 bi-directional link and the output may be configured by the user to provide a variety of communication formats, including a choice of units of measure and averaging periods. Sophisticated error checking and a fault reporting system are supplied as standard, ensuring the user's confidence in the reported data.

The system is supplied complete with an isolated power supply, the cable is supplied by the customer. The isolated power supply is provided complete with a gland plate for cable entry. The Gill Intrinsically Safe WindObserver represents the best all weather solution on the market for providing reliable and accurate wind speed and direction information in hostile and hazardous environments.

Specification Ultrasonic Gill Windobserver II: P 6027 / P 6027 H / P 6027 A

Measurement:	
Output rate	1 Hz or 4 Hz
Parameters	Windspeed & direction or UV
Units	m/s, Knots, MPH, KPH, ft/min.
Averaging	3 sec, 5 sec, 10 sec
Wind Speed:	
Range	0 - 75 m/s
Accuracy	0 - 25 m/s - 2% 26 - 75 m/s - 5%
Resolution	0.01 m/s
Offset	± 0.01 m/s
Direction:	
Range	0 - 359°
Accuracy	0 - 25 m/s - 2° 26 - 75 m/s - 4°
Resolution	1°
Power Requirement:	
Anemometer System	100 V - 120 V 10 VA, 200 V - 250 V 10 VA
Digital Output:	
Communication	RS422 from anemometer RS422 and RS232 from power supply and interface
Baud Rates	1200, 2400, 4800, 9600, 19200, 38400
Formats	8 data, odd, even or no parity
Dimensions:	
Anemometer Size	405mm x 210mm
Anemometer Weight	2 kg
PCI Size	325mm x 230mm
PCI Weight	7kg
Power Requirements	1) 100V ac - 120V ac, 10 Va 2) 200V ac - 250V ac, 10 Va
Environmental:	
Ingress protection	IP 66
Operating temperature	-30...+70°C
Humidity	5% to 100 %
Precipitation	300mm / hr
EMC	BS EN 5008-1: 1992 (Emissions class B)
General	Suitable for exposure to a marine environment
Approvals	EEx ia IIC T5 Complies with ATEX directive
Manufacturer	Gill