

HAZARDOUS AREA



NON-HAZARDOUS AREA



Optional Low voltage (DC)
Power & communications
interface (LVPCI)



Standard Mains voltage (AC)
Power & communications
interface (PCI)

ATEX & IECEx certification is valid for systems that include the OMC-118 WindObserver IS with Gill Power & Communications Interface only

Datasheet

OMC-118IS Intrinsically Safe Wind Sensor

The OMC-118 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.

Features

- Approved to Ex ia IIC T4 Ga
- No onshore maintenance
- Factory calibrated for life
- Stainless steel 316 construction
- Isolated power supply (standard main voltage)
- NMEA Output
- No moving parts
- Wind speed range 0-75 m/s
- Can be connected to the Observator display line



General

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.

Specifications

Measurement

Output 1, 2 or 4 Hz
 Parameters UV, Polar, NMEA, Tunnel, Binary
 Units m/s, Knots, MPH, KPH ft/min
 Averaging 0-3600s

Wind Speed

Range 0 - 75m/s
 Accuracy 2% @ 12m/s
 Resolution 1°

Wind Direction

Range 0 - 359°
 Accuracy ± 4°
 Resolution 1°

Power requirement main voltage

100V—120V 10VA
 200V—250V 10VA
 Option low voltage 9-30VDC-200mA max.

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 380mm x 210mm
 Weight 1.9kg

PCI main voltage:

Size 325mmx230mm
 Weight 9.5kg

Environmental

Ingress protection IP66 (NEMA 4X)
 Operating temperature -30°C to +70°C, 5 to 100% RH

Approvals

Certification Number IECEx SIR 15.0013 Sira 15ATEX2014
 Certification Code II 1 GD II 1 GD
 EX ia IIC T4 Ga EX ia IIC T4 Ga
 Ex ia IIIC T135°C Da IP66 Ex ia IIIC T135°C Da IP66
 Ta = -30°C to +70°C Ta = -30°C to +70°C
 Approvals Intrinsic Safety
 EN 60079-0:2012, EN60079-11:2012, EN 60079-26:2007, IEC60079-0:2011 Edition:6.0, IEC 60079-11:2011 Edition:6.0, IEC 60079-26:2006 Edition:2
 Complies with ATEX directive

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oriented company with a worldwide distribution network and offices in Australia, Germany, the Netherlands, Singapore and the United Kingdom.

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