



Wind sensor OMC-115 on small Tug Boat

Datasheet

OMC-115 WindSonic

The WindSonic is a small lightweight ultrasonic wind speed and direction sensor which is ideal to be used for inland vessels, small tug boats and within yachting. The unit may be supplied in several output options and is available in both white as black.

Applications

- Remote weather monitoring stations
- Road & rail tunnels Building controls
- Environmental field sites
- Data buoys
- Ports & harbours
- Marine vessels
- Mobile weather monitoring vehicles
- Small airports & helipads
- Coastal weather monitoring stations

Features

- Wind speed & direction from a single unit
- Low cost alternative
- Low start speed
- Corrosion free housing
- Maintenance free
- No calibration required
- Can be connected to the Observator display line

General

At last, a real low cost alternative to conventional cup/vane/propeller wind sensors in a single unit. The OMC-115 WindSonic is based on existing, highly successful, proven ultrasonic technology.

Ideal for applications that demand economic wind sensing, the OMC-115 WindSonic is suitable for land-based and marine environments. A lightweight unit, the OMC-115 WindSonic is of a robust, high strength construction designed to withstand installation and use with no fear of the damage commonly experienced with the more fragile cups, vanes or propellers.

Without the need for expensive on-site calibration or maintenance and with a corrosion free exterior, the OMC-115 WindSonic is a true fit and forget unit. The flexible design enables you to easily configure the OMC-115 WindSonic to deliver the information you require. Ensuring accuracy and reliability, the OMC-115 WindSonic automatically transmits an anemometer status code with each output to indicate its operating status.

Maintenance free, quick and easy to install, the OMC-115 WindSonic is designed to be mounted using a standard pole fitting and comes complete with all screw fittings, a mating marine grade connector and comprehensive user manual.

Specifications

Wind speed

- Range 0 – 60 m/s
- Accuracy +/- 2% @ 12 m/s
- Resolution 0.01 m/s (0.02 knots)

Wind direction

- Range 0 to 359° (no dead band)
- Accuracy +/- 2° @ 12 m/s
- Resolution 1°

Anemometer status

- Message supplied as part of standard output

Power requirement

- Anemometer 9-30Vdc @ 40mA typical

Outputs

- 0.25, 0.5, 1, 2 or 4 Hz
- Parameters Wind Speed & Direction or U and V(vectors)
- Units of Measure m/s, knots, mph, kph, ft/min
- Baudrate 2400-38400
- Option 1 RS232
- Option 2 RS232 + RS422 + RS485, NMEA0183
- Option 3 RS232 + RS422 + RS485+ NMEA0183, 0-5V or 0-20 or 4-20mA
- Option 4 SDI-12

Environmental

- Moisture Protection IP66
- Operating Temperature -35°C to +70°C
- Operating Humidity <5% to 100%
- EMC EN 61326: 1998

Materials

- External Construction: LURAN S KR 2861/1C ASA/PC

Dimensions

- Size 142 x 163 mm
- Weight 0.5 kg

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