MiniFOG & RovFOG
True north seeking fibre-optic gyrocompass

The OceanTools MiniFOG is a high specification, compact and very cost effective AHRS (Attitude and Heading Reference System) that offers simplicity of use, reliability and very high accuracy.

- Contains three high precision fibre-optic gyros and precision level sensor
- RS232 and RS485 data communications
- Optional analogue outputs
- Emulates most popular gyrocompasses
- Highly graphical display of all gyro data
- Full logging and replay of gyro data

The MiniFOG has no moving parts of any kind so there is nothing to go out of alignment. This makes the MiniFOG totally maintenance free and it never requires recalibration under normal circumstances.

A major advantage of FOG technology is the fast run-up times with usable data available within 5 minutes of power-up and full system accuracy achieved just a few minutes later. There is no run-down time and power can simply be removed from the unit.

MiniFOG units are supplied with their own pressure housing. RovFOG units are designed to be installed into a customer’s own pressure housing.

KEY FEATURES
- 1000m, 2000m, 3000m and RovFOG variants
- May be powered from AC or DC supply
- Typical heading accuracy of 0.3°
- Typical pitch & roll accuracy
- Typical usable run-up time of 3 - 5 minutes
- Never needs recalibration
- User-friendly interface software
SPECIFICATIONS

MiniFOG

Heading, Pitch & Roll Accuracy
Typical heading accuracy 0.3°-0.4° x secant latitude
Worst case 0.7° x secant latitude
Resolution 0.1°
Maximum latitude 75° north & south
Typical pitch & roll accuracy 0.02°
Worst case 0.2°
Minimum range ±45°

Run-up Time
Typical usable run-up time 3-5 minutes
Worst case, static 20 minutes
Worst case, dynamic 30 minutes

Depth Rating
Standard ratings 1000m, 2000m, 3000m
Optional depth rating 6000m, deeper on request

Dimensions (1000m unit)
Length 405mm
Diameter 300mm
Weight in air 35kg
Weight in water 15kg
Dimensions (RovFOG) Length x width x height 300mm x 248mm x
Weight 8kg

Power Requirements
DC supply 24VDC @ 4A
AC supply 110 - 240VAC

Environmental
Shock 9g for 11mSec all axes
Vibration 5 - 12.5Hz Amplitude 1.6mm
12.5 - 25Hz Amplitude 1.0mm
25 - 50Hz Amplitude 0.1mm
Operating temperature -15°C to 55°C
Storage temperature -35°C to 75°C

Data Outputs
Serial formats Numerous outputs emulating most popular gyros
RS232/RS485 outputs up to 19200Baud
Analogue outputs Up to 32Hz heading, pitch, roll rate
0-5VDC, ±5VDC, 0-3.599VDC 12bit resolution

All specifications subject to change. E&OE. Revision 2. February 2010