

OCEANTOOLS

Innovative Products & Solutions for use in some of the world's harshest environments

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

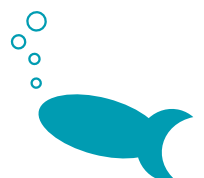
Typical heading accuracy of 0.3°

Typical pitch & roll accuracy

Typical usable run-up time of 3 - 5 minutes

Never needs recalibration

User-friendly interface software



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SPECIFICATIONS

MiniFOG

Heading, Pitch & Roll Accuracy

Typical heading accuracy	0.2°-0.3° 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

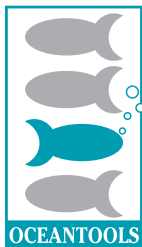
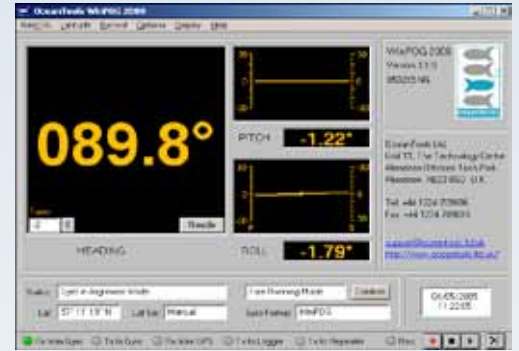
Shock	9g for 11mSec all axes
Vibration	5 - 12.5Hz Amplitude 1.6mm 12.5 - 25Hz Amplitude 1.0mm 25 - 50Hz Amplitude 0.1mm

Operating temperature

Storage temperature	-15°C to 55°C -35°C to 75°C
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Data Outputs

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



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