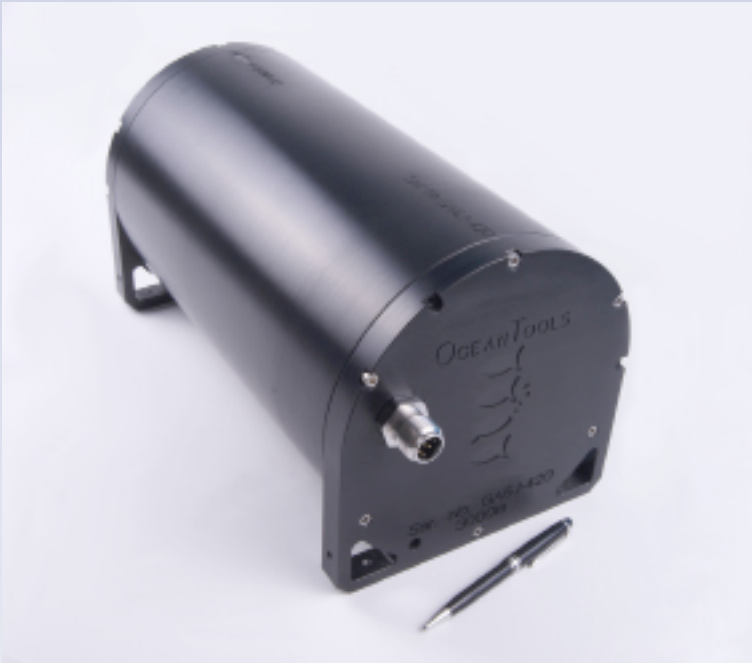


# OCEANTOOLS

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

## OceanFOG Subsea, Surface and ROV Gyrocompass



The OceanTools OceanFOG is an Inertial Reference System (IRS) based on latest-generation fibre optic gyrocompasses (FOGs) and micro-mechanical (MEMS) accelerometers in a single, compact, package. The OceanFOG provides highly accurate Heading, Pitch, Roll, Heave, Rate, Acceleration and Geographical Position. OceanFOG is available in several variants:

- OceanFOG-3K Horizontal housing
- OceanFOG-S Surface Gyro
- OceanFOG-R RovFOG

OceanFOG may be used in a wide variety of subsea and surface applications including Survey, ROV navigation, AUV navigation and for Metrology applications.

When used in static survey operations OceanFOG does not require any external latitude inputs. If used on a moving vessel then a GPS derived external latitude will be required.

OceanFOG features a rapid realignment mode. If the unit has not been moved significantly from its last location then re-alignment will be completed within 90seconds.

OceanFOG has two output datastreams: one is a "Simple" RS232 output that is non-adjustable and which can be used to configure the "Flexible" output. The "Flexible" output is user-selectable between RS232 and RS485.

### KEY FEATURES

Outputs heading, pitch, roll, heave, latitude, longitude, rates & accelerations

Simultaneous twin serial outputs

Rapid run-up time

RS232 and RS485 outputs

3000m standard depth rating for subsea versions

Never requires recalibration



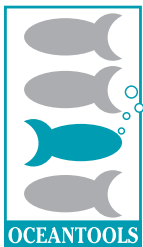
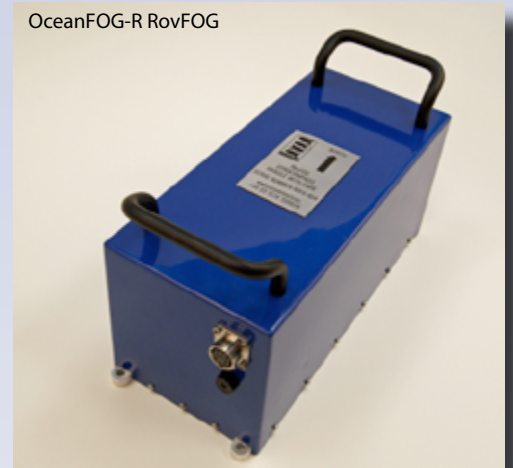
# OCEANTOOLS

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

## SPECIFICATIONS

|  |  |
|--|--|
| Heading accuracy, typical                | better than 0.1° x sec lat                   |
| Pitch & Roll accuracy, typical           | better than 0.01°                            |
| Pitch & Roll measurement range           | ±180°  |
| Heave accuracy, worse case               | 0.1m   |
| Heave accuracy, typical                  | 0.05m  |
| Heave measurement model                  | True heave,                                  |
| Acceleration accuracies                  | 0.2mS <sup>2</sup>                           |
| Static alignment time, latitude <45°     | <3min  |
| Static alignment time, latitude >45°<78° | <10min                                       |
| Dynamic alignment time                   | <30min                                       |
| Operating voltage range                  | 18-36VDC                                     |
| Power consumption                        | <30Watt                                      |
| Interfaces                               | RS232, RS485                                 |
| Interface protocol                       | OceanTools OceanFOG, MiniFOG, various others |
| Update rates                             | Up to 50Hz                                   |
| Operating temperature range              | -15°C to 55°C                                |
| Maximum operational shock                | 6g for 11mSec in 3 axes                      |
| MTBF                                     | >20000hours                                  |
| Maximum latitude                         | 78°N/S                                       |
| Length (3000m)                           | 390mm  |
| Diameter (3000m)                         | 205mm  |
| Weight in air (3000m)                    | 19kg   |
| Weight in water (3000m)                  | 7kg  |
| Depth ratings                            | 3000m standard                               |
| Depth options                            | 300m - 6000m                                 |
| Data transmission                        | RS232, RS485                                 |

OceanFOG-R RovFOG



OceanTools Ltd  
OceanTools House  
Claymore Drive  
Aberdeen AB23 8GD. UK.

Tel + 44 1224 709606  
Fax + 44 1224 709616  
Email [sales@oceantools.co.uk](mailto:sales@oceantools.co.uk)  
Web [www.oceantools.co.uk](http://www.oceantools.co.uk)

Represented by: