

Octans 3000 Fibre Optic Gyro

- Integrated Motion Sensors

- 5 Minute Settling Time

- 3000M Rated



Description

The Octans 3000 is a high specification underwater gyrocompass with integrated motion sensor. The heading sensor consists of a solid state fibre-optic gyroscope (FOG) providing fast settling times and 0.1 degree accuracy in all sea conditions. The motion sensor provides speed and acceleration outputs for roll, pitch, surge and sway. Outputs include 4 analogue ports and one serial port as either RS232 or RS422 in a variety of industry standard string formats. The provided Windows configuration software enables the user to apply bias settings to heading, pitch and roll readings and apply level arms for monitoring of remote points.

Specifications

Heading

Settling Point	+/- 0.1 degrees sec. lat.
Dynamic Accuracy	+/- 0.2 degrees sec. lat.
Resolution	0.01 degrees
Settling Time Static	< 1 minute
Settling Time at Sea	< 3 minutes
Speed Compensation	No limitation
Latitude Range	No limitation

Roll and Pitch

Dynamic Accuracy	0.01 degrees
Range	-180 to + 180 degrees
Follow Up Speed	Up to 500 degrees/s

Heave, Surge and Sway

Accuracy	5 cm or 5% (whichever is greater)
Heave Motion Periods	0.03 to 1000s, tunable

Environment

Vibrations	1g sine (5 to 50Hz)
Shock Operating	30g 6ms
Shock (survival)	50g 11ms
MTBF	30000 hours
Operating Temperature	-40 to +60 degrees C

Electrical

Power Requirements	24V DC at 12W
Inputs	1 x serial
Outputs	1 x serial, RS232 or RS422. 4 x analogue (14bits, +/-10V)
Output Format	880 to 115Kbaud, parity and stop bits programmable
Output String	Selectable from industry standard strings, library can be uploaded from file.
Connector	16 Pin MCBH16M Subcon standard

Physical

Depth Rating	3000m
Weight in Air	25Kg
Weight in Water	17Kg
Housing Dimensions	179 diam x 308 h mm
Base Plate Dimensions	209 diam x 10 h mm