

OCTANS 3000

HIGH-PERFORMANCE SUBSEA GYROCOMPASS AND MOTION SENSOR

OCTANS 3000 is a subsea survey-grade gyrocompass and complete motion sensor for water depths up to 3,000m. Based on **iXBlue**'s FOG technology it outputs heading, roll, pitch, heave, rate of turn and acceleration. **OCTANS 3000** can be easily upgraded to full INS mode (i.e. ROVINS).

FEATURES

- Complete gyrocompass and motion sensor
- Smart Heave[™]
- Fiber Optic Gyroscope (FOG), unique strap-down technology
- Ethernet, Web-based Man-Machine Interface (MMI)
- Titanium made, small, portable plug and play system
- Optional full featured Inertial Navigation System

BENEFITS

- High-performance real-time outputs of true heading, roll, pitch, heave, surge, sway, acceleration and rate of turn
- No spinning element hence maintenance free
- Lightweight corrosion free housing for water depth up to 3,000 m, easy to integrate and interface, saves valuable mobilization time
- Obtain INS-class system with simple software upgrade

APPLICATIONS • ROV & offshore survey • Multibeam and sonar motion reference

• Dredging • Marine construction



OCTANS 3000

TECHNICAL SPECIFICATIONS

PERFORMANCE

Heading Accuracy ⁽¹⁾⁽²⁾ Resolution Full accuracy settling time (all conditions)

Heave accuracy ^[3]

Roll / Pitch

Dynamic accuracy ⁽²⁾ Resolution 0.1 deg secant latitude 0.01 deg < 5 min 2,5 cm or 2,5% (whichever is greater)

-20 to +55°C/ -40 to +80 °C

40,000 hours / 80,000 hours

0 to +360 deg / ±180 deg / ±90 deg

5 inputs / 5 outputs / 1 configuration port UDP / TCP Client / TCP server

Industry standards: NMEA0183, ASCII, BINARY

3 inputs / 2 outputs

600 bauds to 115.2 kbaud

GPS, Speed log

0.1 Hz to 200 Hz

24 VDC

< 20 W

Up to 750 deg/s

0.01 deg 0.001 deg

±15 g

OPERATING RANGE / ENVIRONMENT

Operating / Storage Temperature Follow-up speed Acceleration dynamic range Heading / Roll / Pitch MTBF (computed/observed) No warm-up effects, insensitive to thermal shocks Shock and vibration proof

Depth Material Weight in air/water [kg] Housing dimensions Connector Mounting

i dinig (ini)			(Ø x H mm)		
3000	Titanium	15/6,2	213 x 375	5 x SEACON MI-CON	6 Ø 6,6 holes

INTERFACES

Serial RS232/RS422 port Ethernet port ⁽⁵⁾ Pulse port ⁽⁶⁾ Sensors supported Intput/Output formats Baud rates Data output rate Power supply Power consumption

secant latitude = 1 / cosine latitude
 RMS values
 Smart Heave[™]

[4] All input /output serial ports are available and can be duplicated on Ethernet ports

(5) Input of GPS PPS pulse for accurate time synchronization of OCTANS 3000

Specifications subject to change without notice

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