

## **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<sup>™</sup>
- 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 <sup>(1)(2)</sup> Resolution Full accuracy settling time (all conditions)

Heave accuracy<sup>(3)</sup>

**Roll / Pitch** Dynamic accuracy <sup>(2)</sup> Resolution



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

0.01 deg 0.001 deg

## 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 -20 to +55°C/ -40 to +80 °C Up to 750 deg/s ±15 g 0 to +360 deg / ±180 deg / ±90 deg 40,000 hours / 80,000 hours

## PHYSICAL CHARACTERISTICS

Depth rating (m)	Material	Weight in air/water [kg]	Housing dimensions (Ø x H mm)	Connector	Mounting
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 <sup>(5)</sup> Pulse port <sup>(6)</sup> Sensors supported Intput/Output formats Baud rates Data output rate Power supply Power consumption 5 inputs / 5 outputs / 1 configuration port UDP / TCP Client / TCP server 3 inputs / 2 outputs GPS, Speed log Industry standards: NMEA0183, ASCII, BINARY 600 bauds to 115.2 kbaud 0.1 Hz to 200 Hz 24 VDC < 20 W

secant latitude = 1 / cosine latitude
RMS values
Smart Heave<sup>™</sup>
All input /output serial ports are available and can be duplicated on Ethernet ports
Input of GPS PPS pulse for accurate time synchronization of OCTANS 3000
Maximum error = 3 or RMS error
Specifications subject to change without notice

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