offshore rental

iXBlue Octans 3000

High-Performance Subsea Gyrocompass & Motion Sensor

OCTANS 3000 is a subsea survey-grade gyrocompass and complete motion sensor for water depths up to 3,000 m. 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 HeaveTM
- ✓ Fiber Optic Gyroscope (FOG), unique strapdown 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

 $\label{eq:applications} \textbf{APPLICATIONS} \bullet \texttt{ROV} \ \& \ \texttt{offshore survey} \bullet \texttt{Multibeam} \ \texttt{and sonar} \ \texttt{motion reference}$

Dredging
Marine construction



Octans 3000 Technical Specifications

Preformance

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)

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	Material	Weight in air/water	Dimensions	Connector	Mounting
3,000 m	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

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

(1) secant latitude = 1 / cosine latitude

(2) RMS values (3) 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