OCTANS, with Ethernet output, is an IMO certified survey grade gyrocompass and complete motion sensor. It is based on iXSea’s FOG technology, which outputs true heading, roll, pitch, surge, sway, heave, speed, acceleration and rate of turn.

**FEATURES**
- Complete gyrocompass and motion sensor
- Fiber Optic Gyroscope (FOG), unique strap-down technology
- Ethernet, WEB-based MMI (Man Machine Interface)
- IMO Certification
- Small, portable plug and play system

**BENEFITS**
- High-performance real-time outputs of true heading, roll, pitch, heave, surge, sway as well as acceleration and rate of turn
- No spinning element hence maintenance free
- Network ready intuitive user interface through any WEB browser terminal
- Pre-approved international quality and safety standard
- Saves valuable time

**APPLICATIONS**
- Navigation
- Survey
- Dynamic positioning
- Motion monitoring
- Sensor stabilisation
OCTANS
TECHNICAL SPECIFICATIONS

PERFORMANCE

Accuracy \(^{(1)(2)}\)
Settling time (static conditions)
Full accuracy settling time (all conditions)

0.1 deg \(1 / \cos \text{latitude}\)
< 1 min
< 5 min

Accuracy

5 cm or 5% (whichever is greater)

Roll / Pitch dynamic Accuracy \(^{(2)}\)

0.01 deg

OPERATING RANGE / ENVIRONMENT

Rotation rate dynamic range
Accelerometer dynamic range
MTBF (computed/observed)
Operating / Storage Temperature
Heading / Roll / Pitch
No warm-up effects
Shock and Vibration proof

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

PHYSICAL CHARACTERISTICS

Dimensions (L x W x H)
Weight in air
Water proof
Material

275 x 136 x 150 mm
4.5 Kg
IP66
Aluminium

INTERFACES

Serial RS232/RS422 port
Ethernet port \(^{(3)}\)
Pulse port \(^{(4)}\)
Input / Output formats
Baud rates
Data output rate
Power supply
Power consumption

2 inputs / 3 outputs / 1 configuration port
UDP / TCP Client / TCP server
4 inputs and 2 outputs
Industry standards: NMEA0183, ASCII, BINARY
600 bauds to 115.2 kbaud
0.1 Hz to 200 Hz
24 VDC
15 W

\(^{(1)}\) secant latitude = 1 / \cos \text{latitude}
\(^{(2)}\) RMS values
\(^{(3)}\) All input /output serial ports are available and can be duplicated on Ethernet ports
\(^{(4)}\) Use GPS PPS pulse input for accurate time synchronization of OCTANS

Specifications subject to change without notice