



## OCTANS

### SURFACE GYROCOMPASS AND MOTION SENSOR

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

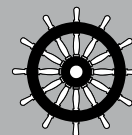
- High-performance real-time outputs of true heading, roll, pitch heave, surge, sway as well as acceleration and rate of turn
- No spinning element hence maintenance free
- Network ready intuitive user interface through any WEB browser terminal
- Pre-approved international quality and safety standard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



**APPLICATIONS** • Navigation • Survey • Dynamic positioning • Motion monitoring • Sensor stabilisation

# OCTANS

## TECHNICAL SPECIFICATIONS



IMO Certified  
N° 09807/B1 EC

### PERFORMANCE

<b>Heading</b>	
Accuracy <sup>(1)(2)</sup>	0.1 deg secant latitude
Settling time (static conditions)	< 1mn
Full accuracy settling time (all conditions)	< 5 min
<b>Heave / Surge / Sway</b>	
Accuracy	5 cm or 5% (whichever is greater)
Roll / Pitch dynamic Accuracy <sup>(2)</sup>	0.01 deg

### OPERATING RANGE / ENVIRONMENT

Rotation rate dynamic range	Up to 750 deg/s
Acceleration dynamic range	±15 g
MTBF (computed/observed)	40,000/80,000 hours
Operating / Storage Temperature	-20 to +55°C/ -40 to +80 °C
Heading / Roll / Pitch	0 to +360 deg / ±180 deg / ±90 deg
No warm-up effects	
Shock and Vibration proof	

### PHYSICAL CHARACTERISTICS

Dimensions (L x W x H)	275 x 136 x 150 mm
Weight in air	4.5 Kg
Water proof	IP66
Material	Aluminium

### INTERFACES

Serial RS232/RS422 port	2 inputs / 3 outputs / 1 configuration port
Ethernet port <sup>(3)</sup>	UDP / TCP Client / TCP server
Pulse port <sup>(4)</sup>	4 inputs and 2 outputs
Input / Output formats	Industry standards: NMEA0183, ASCII, BINARY
Baud rates	600 bauds to 115.2 kbaud
Data output rate	0.1 Hz to 200 Hz
Power supply	24 VDC
Power consumption	15 W

(1) secant latitude = 1 / cosine 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