Octans

High-performance surface gyrocompass and motion sensor

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

FEATURES

- Complete gyrocompass and motion sensor
- Smart heave™
- Fiber-Optic Gyroscope (FOG), unique strap-down technology
- Ethernet, WEB-based Man-Machine Interface (MMI)
- 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 stabilization

Courtesy of Boskalis

IX3LUE
DEEP INSIGHT. SHARPER SENSES.

OCTANS
TECHNICAL SPECIFICATIONS

PERFORMANCE

Heading
Accuracy [1][2][6]	0.1 deg secant latitude
Settling time (static conditions)	< 1mn
Full accuracy settling time (all conditions)	< 5 min
Resolution	0.01 deg

Heave / Surge / Sway
Accuracy [3]	2,5 cm or 2,5% (whichever is greater)

Roll / Pitch / Yaw
Dynamic accuracy [2]	0.01 deg
Resolution	0.001 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 [4]	UDP / TCP Client / TCP server
Pulse port [5]	4 inputs and 2 outputs
Intput / 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	< 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) Use GPS PPS pulse input for accurate time synchronization of OCTANS
(6) Maximum error = 3 or RMS error
Specifications subject to change without notice

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