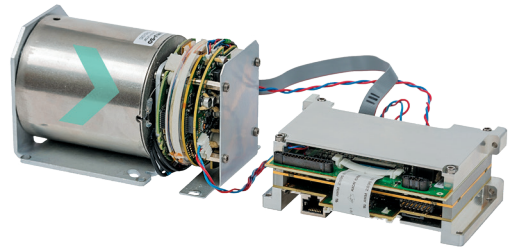


Octans Nano OEM

Compact OEM gyrocompass
and attitude sensor



Octans Nano OEM is the smallest and most adept state-of-the-art OEM attitude and heading reference system (AHRS). It is built on Exail's renowned fiber-optic gyroscope (FOG) technology and offshore instrumentation expertise. Octans Nano OEM offers an outstanding price/performance solution.

FEATURES

- Smallest all-in-one subsea gyrocompass and attitude sensor
- Leading FOG strap-down technology
- Ethernet and serial interfaces

BENEFITS

- High-performance sensors with real-time computation of true heading, roll, pitch and rates of turn
- High reliability and low maintenance
- Free of ITAR components

APPLICATIONS

- Observation class ROV navigation
- Tow Fish, Side Scan Sonar orientation

TECHNICAL SPECIFICATIONS

Performance

Heading dynamic accuracy ⁽¹⁾⁽²⁾	0.5 deg secant latitude
Roll/pitch dynamic accuracy ⁽¹⁾	0.1 deg
Settling time (ready to nav)	< 5 mn
Full accuracy settling time (all conditions)	< 30 min
Resolution	0.01 deg

Operating range/Environment

Operating/storage temperature	-20 °C to 55 °C / -40 °C to 80 °C
Rotation rate dynamic range	Up to 250 °/Sec
Acceleration dynamic range	±5 g
Heading/roll/pitch ranges	0 to +360 deg / ±180 deg / ±90 deg
MTBF	100,000 hours (System observed) 500,000 hours (FOG + Accelerometers)
Robust to harsh environment, shock and vibration proof	

Physical characteristics

Weight	1,6 kg
Volume	0,4 L
Diameter	140 mm

Interfaces

Ethernet port	100 Mbits, UDP / TCP Client / TCP server / web sever (GUI)
Serial RS232	5 inputs / 5 outputs independent ports / 1 config. port
Pulse port	2 inputs / 1 output for PPS time synchronization
Input/output formats	Industry standards: NMEA0183, ASCII, BINARY
Data output rate	Up to 200 Hz
Power supply/consumption	24 VDC (20 - 32 V) / < 12 W ⁽³⁾

(1) RMS values

(2) Secant latitude = 1 / cosine latitude

(3) Typical value @ 24 V and ambient temperature