

# Applications

Container ship – Cargo – Bulk – Cruise ships – Ferries – Yachts Drilling ships – Fishing – Research vessels – Survey vessels – Scientific Seismic – Marine construction – Workboats – Tugs – Ro-Ro Fast Patrol boats – DP operating vessels

### Features

- Small compact and plug & play system
- Complete gyrocompass
- Unique strap-down technology, fiber-optic gyroscope (FOG),
- Ethernet, Web-based Man-Machine Interface (MMI)
- IMO Certification

# **Quadrans** IMO GRADE SURFACE GYROCOMPASS & ATTITUDE REFERENCE SYSTEM

Quadrans, is a fully strapdown Fiber-optic Gyrocompass and attitude reference system. IMO and IMO-HSC certified, it provides at a fast rate and with precise time-stamping all the necessary data for demanding navigation and control applications. Thanks to its low weight and small size, its low power consumption and its Ethernet/Serial connectivity it can be integrated very easily on any platform.

Based on state-of-the-art fiber-optic gyroscope technology, Quadrans provides all navigation needs, without any compromise on performance and without requiring any maintenance during its service life.

# Benefits

- Plug and play
- Fast-setting time
- Maintenance-free
- Easy integration
- High-reliability



# **Quadrans** Technical specifications



### Performance

Heading accuracy<sup>(1) (2) (3)</sup> Roll/Pitch accuracy<sup>(1) (3)</sup> Setting time 0.23 deg sécant latitude 0.1 deg < 30mn (all conditions)

### **Physical characteristics**

Weight Calibration interval MTBF Dimensions (LxWxH) 2,8kg Non required 40.000 hours 160 x 160 x 113mm

### Operating range/environement

Operating/Storage Temperature Heading/Roll/Pitch -20°C to 55°C /-40°C to 80°C 0 to +360 deg/±180 deg/±90 deg

#### Interfaces

Serial RS232/RS422 port Ethernet port<sup>(4)</sup> Pulse port Sensors supported Web MMI Input/Output formats

Data output rate Data input Power supply Power consumption 2 inputs/2 ouputs/1 configuration port UDP/TCP client/TCP server 4 inputs and 2 outputs, 5V (TTL Level) All navigation sensors Embadded Industry standards: NMEA 0183, ASCII, BINARY

0,1 Hz to 200 Hz up to 100 Hz 24 VDC (15 to 36VDC) 10 W

RMS values
Secant latitude -1/cosine latitude
Maximum error = 3xRMS error
All input/output serial ports are available and can be duplicated on Ethernet ports