NAVIGAT 2500
CompassNet
Fiber Optic Gyro Compass Solution
Today’s vessel operational requirements vary vastly from ship to ship. Common to all is the need for a heading sensor that allows continuous safe vessel operation at an affordable price point. Choosing the appropriate heading sensor technology helps to minimise the risk of operational disruption, lower the cost and allow for the most flexible operation pattern.

Our unique low drift, fast settling networked fiber optic gyro compass NAVIGAT 2500 provide operators with a highly reliable heading sensor in a highly competitive priced compass system package. Maintenance free strap-down FOG technology forgoes the need for moving parts or expensive configuration. Delivering our longest running system endurance to date at a MTBF of 150,000 hrs, wherever you are heading, you can be confident Sperry Marine will get you there safely, reliably and cost effectively.

Features:

- DNV-GL and BV MED type approved heading (standard and high speed craft) and rate of turn sensor
- No moving parts
- Fast start up for flexible operation patterns
- Very high reliability for improved operational safety
- Small size and low weight provide easy and flexible installation options
- Fully integrated in Heading Management System CompassNet
- Scalable system with open platform to integrate existing sensors

Benefits:

- Maintenance-free FOG sensor
- 5 year warranty included
- Highly competitive price point and fast return on investment
- Low total cost of ownership
- Turn on and go
- No export restrictions, immediate availability

5 Year Warranty

Fast return on investment

50% Higher MTBF than competitor products

Maintenance free

Low total cost of ownership
**Specifications**

**Technical data**

<table>
<thead>
<tr>
<th>Heading</th>
<th>0.23 deg sec.lat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate of turn</td>
<td>0.06 deg/ min</td>
</tr>
<tr>
<td>Roll and pitch</td>
<td>0.5 deg</td>
</tr>
<tr>
<td>Settling time</td>
<td>5 minutes (initial) + 25 minutes (fine)</td>
</tr>
</tbody>
</table>

**Operating/storage temperature**

- Heading: 0 to 360°
- Roll: -180° to +180°
- Pitch: -90° to +90°

**Power supply**

- Voltage: 24 V DC (15 to 32 V DC)
- Consumption: 10 W

**Reliability**

- MTBF (computed): 150,000 h
- Preventive maintenance/calibration interval: No

**Physical characteristics**

- Dimension (LxWxH): 160mm x 160mm x 113.5mm
- Weight: 2.5 kg
- Protection grade: IP66
- Standard compass safe distance: 0.3m
- Steering compass safe distance: <0.2m

(1) Secant latitude = 1 / cosine latitude
(2) RMS values; 68% of the data is within this value of confidence
(3) Initial alignment must be performed in static conditions or at drift
(4) Maximum error = 3*RMS error

**Inputs and Outputs**

<table>
<thead>
<tr>
<th>Serial interfaces</th>
<th>11x Sensor data output, IEC 61-162</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8x Repeater output</td>
</tr>
<tr>
<td></td>
<td>1x Printer output</td>
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<tr>
<td></td>
<td>8x Serial data input (e.g. GPS, Speed Log)</td>
</tr>
<tr>
<td></td>
<td>1x Bi-directional INS compliant comm. IEC 61834-2</td>
</tr>
<tr>
<td>Analogue interfaces</td>
<td>1x ± 10 V Rate-of-turn output</td>
</tr>
<tr>
<td></td>
<td>1x Fluxgate input, incl. Fluxgate power supply</td>
</tr>
<tr>
<td>Alert and status interfaces</td>
<td>1x Bi-directional serial alert communication</td>
</tr>
<tr>
<td></td>
<td>11x Alarm output (dry contact)</td>
</tr>
<tr>
<td></td>
<td>4x Status input, 7x Status output (dry contact)</td>
</tr>
</tbody>
</table>

**Standards Applied**

Global Customer Support and Solutions
We provide service and support on a 24/365 basis at every major port worldwide, at anchor, offshore and at sea. We continually monitor our service quality to ensure our performance remains the highest in the industry.