

# NAVIGAT 2500

Networked Fiber Optic Gyro Compass



NAVIGAT 2500 is a networked Fiber Optic Gyro (FOG) solution within a CompassNet configuration, and delivers the industry's highest level of reliability at the most affordable price.

It requires no maintenance and has the longest system life of any commercial gyro. It's easy to install in flexible, multi-system configurations that offer full redundancy for continuous operation in any location. It's a truly strapped-down compass solution that delivers lower through-life costs and including a 5-year warranty.

# Affordably upgrade to the longest-running FOG solution

## Stay compliant

- Type approved to applicable MED, IMO and IEC standards
- RMRS/RRR and CCS type approval also available

## Increase reliability

- Strap-down technology with no moving parts for maintenance-free, continuous operation
- Fully integrated into CompassNet for redundancy and maximum uptime
- Proven technology with the longest system life

## Improve ease of use

- Simpler, safer management of all components through one common CDU as part of CompassNet

## Protect crew health

- Maintenance-free to eliminate onboard visits from Marine Service Engineers
- Silent operation of bridge equipment one common CDU as part of CompassNet

## Reduce through-life costs

- Most affordable commercial FOG system with fast ROI
- No maintenance fees
- Fixed-price option for system and installation by certified Sperry Marine Engineers
- Faster, easier installation with up to 80% less cabling than comparable systems
- Heading sensors for Differential Positioning can also be used for navigation purposes
- 5-year warranty

## Optimise operational schedule

- Fast start-up with the quickest alignment time
- No in-port delays for maintenance

## Improve flexibility

- Supports sailing in high latitudes
- Compact size and weight for flexible installation
- Part of CompassNet, which is an open-scalable platform that supports any mix of up to four gyro compasses, plus one magnetic compass
- No export restrictions for immediate availability
- Global 24/365 service and support at every major seaport, at anchor, offshore and even in passage

## Extend system life

- Longest system life of any gyro

## Reduce emissions

- Stay on course with more precise heading and rate of turn to reduce fuel use



# Specifications

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| <b>Technical data</b> |                                                             |
| Heading               | 0.23 degrees secant latitude, (RMS)                         |
| Rate of turn          | 0.06 degrees/minute                                         |
| Roll and pitch        | 0.5 degrees, (RMS)                                          |
| Settling time         | 5 minutes (initial), +25 minutes (fine)                     |
| Range                 | Heading: 0 to 360°; Roll: 180° to 180°; Pitch: -90° to +90° |

|                                                    |               |
|----------------------------------------------------|---------------|
| <b>Reliability</b>                                 |               |
| Mean Time Between Failures (in-service experience) | 150,000 hours |

|                                                                          |                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inputs and outputs</b>                                                |                                                                                                                                                                                                                                                  |
| Sensor Output                                                            | Serial interface acc. IEC61162-1/2<br>3x sensor data (e.g. for DP use)                                                                                                                                                                           |
| Inputs and Outputs available via CompassNet Data Distribution Unit (DDU) |                                                                                                                                                                                                                                                  |
| Serial interfaces                                                        | 11x Sensor data output, IEC61162-1/2<br>8x Repeater port (serial data and power supply)<br>1x NAV printer or sensor data<br>8x Serial data input (e.g. GPS, speed log)<br>1x Bi-directional INS compliant comm. IEC 61924-2                      |
| Analogue interfaces                                                      | 1x ±10 V Rate-of-Turn output<br>1x Fluxgate input, incl. Fluxgate power supply                                                                                                                                                                   |
| Alert and status interfaces                                              | 1x Bi-directional serial alert communication acc. IEC62923-1/2<br>11x Alarm output (dry contact)<br>Status inputs: auto/man mode, heading +180° function, mute in<br>Status outputs: BNWAS reset, GAS active, heading reference status, mute out |



You may also be interested in:



### CompassNet

Efficiently managing your redundant heading sensors on the bridge.



### NAVIGAT 3500

Adding highest heading accuracy and motion reference data to your bridge.



### NAVIGAT 200

Building redundancy for highest system availability.



### JUPITER & NAVIPOL

Adding primary compass back-up required for every vessel.



### NAVIPILOT 4500N

Keeping your vessel more efficiently on course, reducing fuel consumption, emissions and workload on the bridge.

## Global Service and Support

Sperry Marine provides service and support on a 24/365 basis at every major port worldwide, at anchor, offshore and at sea. All Marine Service Engineers are all certified to ensure they install, maintain and repair our products to the industry's highest standards on a consistent global basis. Please see [www.sperrymarine.com/services](http://www.sperrymarine.com/services) for full details of all our service locations.

## Find out more

Please visit [www.sperrymarine.com/navigat-2500-gyro-compass](http://www.sperrymarine.com/navigat-2500-gyro-compass) for more information.

If you would like a quotation, please email [sales@sperry.ngc.com](mailto:sales@sperry.ngc.com).

BR-59/EXP-SD-2022-337