

NAVIGAT 3500

Networked Fiber Optic Gyro Compass and Motion Reference Unit



NAVIGAT 3500 is a networked Fiber Optic Gyro (FOG) and Motion Reference Unit (MRU) solution within a CompassNet configuration, and delivers the industry's highest levels of precision and reliability.

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.

Always stay precisely on course

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

Reduce through-life costs

- Fixed-price option for system and installation by certified Sperry Marine Engineers
- Incorporates Motion Reference Unit
- Faster, easier installation with up to 80% less cabling than comparable systems
- Heading sensors for Differential Positioning can also be used for navigation purposes
- No maintenance fees
- 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
- 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 commercial gyro

Reduce emissions

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



Specifications

Technical data

Heading	0.15 degrees secant latitude (RMS)
Rate of turn	0.06 degrees/minute
Roll and pitch	0.1 degrees, (RMS)
Heave	0.1 m/10% (whichever is higher)
Settling time	5 minutes (initial) +25 minutes (fine)
Range	Heading: 0 to 360°; Roll: -180° to +180°; Pitch: -90° to +90°
Operating / storage temperature	-20°C to 55°C / -40°C to 80°C
Export	Dual use

Reliability

Mean Time Between Failures (in-service experience)	150,000 hours
--	---------------

Inputs and outputs

Sensor Output	Serial interface acc. IEC61162-1/2 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 8x Repeater port (serial data and power supply) 1x NAV printer or sensor data 8x Serial data input (e.g. GPS, speed log) 1x Bi-directional INS compliant comm. IEC 61924-2
Analogue interfaces	1x ±10 V Rate-of-Turn output 1x Fluxgate input, incl. Fluxgate power supply
Alert and status interfaces	1x Bi-directional serial alert communication acc. IEC62923-1/2 11x Alarm output (dry contact) Status inputs: auto/man mode, heading +180° function, mute in 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.



JUPITER & NAVIPILOT

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 for full details of all our service locations.

Find out more

Please visit www.sperrymarine.com/navigat-3500-gyro-compass for more information.

If you would like a quotation, please email sales@sperrymarine.com

BR-60/EXP-SD-2022-338