

Sperry Marine

NAVIGAT 3000

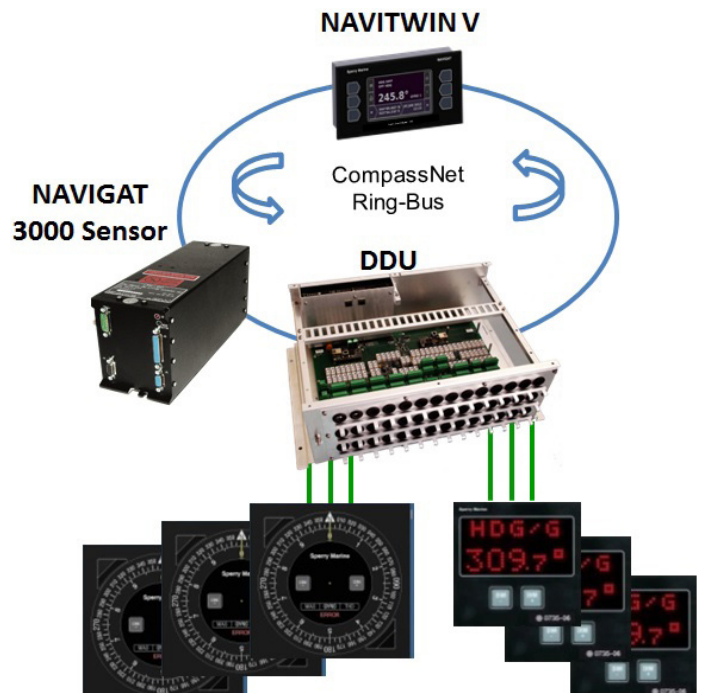
Fibre-Optic Gyrocompass and Attitude Reference System



The Durable and Reliable Solution for Mega Yachts, Cargo Vessels, Cruise Liners and the Offshore DP Market

Features

- High accuracy, better than 0.1 degrees
- Free of scheduled maintenance, no moving parts
- Very fast alignment time down to 3.5 minutes
- Field data based MTBF of 130,000 hours



NAVIGAT 3000 Fibre-Optic Heading and Attitude Reference System

The NAVIGAT 3000 is the flagship of Northrop Grumman Sperry Marine's successful gyrocompass portfolio with over 20 years of experience in fibre-optic gyrocompass technology. Fully integrated in CompassNet as a single or multiple compass solution, it brings all the benefits of the ring-bus system, such as simplified cabling, fast installation time, high system flexibility, increased redundancy and hot plug-and-play.

With a very fast settling time, better than Hemispherical Resonator Gyros (HRGs), unique MTBF based on real field data, and its high precision outputs of rate-of-turn, roll, pitch, x-/y-/z-rates and heave, the NAVIGAT 3000 is the ideal solution for any vessel application, especially for dynamic positioning (DP) systems, platforms and cruise liners as well as mega yachts. The outstanding robustness combined with the freedom from scheduled repeated maintenance makes the NAVIGAT 3000 a rewarding long-term investment.

The NAVIGAT 3000 is fully type approved, including high-speed craft (HSC) and integrated navigation systems (INS). The type approved rate-of-turn output can be used to replace a separate rate gyro (dual NAVIGAT 3000 required). Where accepted by the classification society, the NAVIGAT 3000 can also replace a motion reference unit within a DP system.

Integration into CompassNet provides the NAVIGAT 3000 with high system flexibility, making it the ideal choice for newbuilds and retrofits.

Technical Data

Accuracy

Heading	≤0.1 secant latitude RMS
Roll & Pitch	≤0.1 RMS
Rate-of-Turn	≤0.018 / minute
x-/y-Rate	1000 ppm (0,1 %) RMS
Heave	0.1 m

Power Supply

Power supply	2x 24V DC (main and back-up)
Power consumption	32 W

Alignment

Dynamic conditions at sea	≤30 minutes
Static conditions	≤10 minutes at latitudes 78 ≤210 seconds at latitudes 45

Dimensions, Weight and MTBF

Width	102 mm
Depth	278 mm
Height	128 mm
Weight	ca. 3 kg (4 kg with tray)
MTBF	130,000 hours (field data)

Compliance and Approvals

IMO A.424(XI), A.694(17), A.821(19) and 2000 HSC Code 13, A.526(13)
MSC.191(79), ISO 8728, IEC 60945 incl. corr. 1, IEC 62288, IEC 61162-1,
IEC 61162-2

Type Approval

Wheelmark approved for standard and high speed craft

Type approved by Russian Maritime Register

Type approved by China Classification Society

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BR-14/EXP-HJ-JUN-18
2018-2955