NAVIGAT 200 is the latest advancement of the Northrop Grumman Sperry Marine spinning mass gyrocompass.

Built on the successful NAVIGAT X MK1, the NAVIGAT 200 combines the latest technology breakthrough with quality, price and requires only minimal service support.

Features

- System architecture based on Ethernet communication for easy installation
- Building block for CompassNet and multiple gyrocompass systems
- Low lifecycle costs
- Easy integration with magnetic and GPS compasses, FOG and third party gyros
- HSC Approved
- Short installation time
- High-speed follow-up system 100°/sec
- 180° heading offset function for shuttle vessels
- High resolution ROT output
- Dual, triple and quadruple configurations compliant with Class Notifications DNV NAUT-OC and NAUT-AW, GL NAV-INS and DNX DPS-2 and DPS-3

The NAVIGAT 200 and Rate of Turn is type approved in compliance with:

- 96/98/EC Marine Equipment Directive 2015/559 April 2015 (wheelmark)
- IMO A.424(XI), A.694(17) A.526(13 ) (Rate of Turn), MSC.191(79), A.821(19)-(HSC), MSC.36(63)-(1994 HSC Code), MSC.97(73)-(2000 HSC Code), ISO 16328(2014). Compliant with the requirements of DNV GL Rules for Ships Pt.6 Ch.3 (INS)
### Performance, Specifications and I/O Signals

#### Performance

- Linear mean settle point error (RMS) ≤ 0.1° Secant latitude
- Static error (RMS) ≤ 0.1° Secant latitude
- Dynamic error ≤ 0.4° Secant latitude
- Heading Resolution 0.1
- Rate of Turn Resolution ≤0.5 ±5% °/min
- Freedom of Roll & Pitch ±40°
- Settling Time 2 to 3 hours
- Follow-Up rate 100°/sec
- MTBF 120,000
- North stabilization at power interruption ~3min

#### Operations

- Power Supply DC 24V
  - AC 115/230V (external ps)
- Power Consumption
  - NAVIGAT 200 96W 64W
  - DDU 101w 8W
  - CDU 7W per Repeater 5W per Repeater
- Temperature range
  - Operation -10°C to +55°C
  - Storage -25°C to +70°C
- Power Failure Alarm Visible, audible and potential free contact
- Protection Grade IP 23 as per IEC/EN 60529
- Environmental Req & EMC In accordance with EN60945 (IEC 945 +1)
- Magnetic Clearance to:
  - Standard Magnetic Compass 0.5m
  - Steering Magnetic Compass 0.35m
- Reduced Magnetic Clearance to:
  - Standard Magnetic Compass 0.3m
  - Steering Magnetic Compass 0.3m

#### I/O signals

- Main Supply 24VDC
- Backup Supply 24VDC
- 8x Repeater IEC 61162-1/2 24VDC
- 11x Sensor Data IEC 61162-1/2
- Nav, Printer or Sensor Data RS422 IEC 61162-1/2
- 11x Alarm Relay Out ±10 V
- 1x Analog Out
- Mute

#### Configurations

- Single Gyrocompass System
- Dual Gyrocompass System
- Triple Gyrocompass System

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