NAVIGAT 100 is the advancement of the Northrop Grumman Sperry Marine spinning mass gyrocompass.

The NAVIGAT 100 fully integrates the benefits of the NAVIGAT family of products within a single unit.

Features

- CompassNet single unit
- 180° heading offset function for shuttle vessels
- Built-in test equipment
- Automatic North Speed Error Correction
- HSC Approved
- Low lifecycle costs
- Short installation time
- High-speed follow-up system 100°/sec
- High resolution ROT output

The NAVIGAT 100 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. Compliant with the requirements of DNV GL Rules for Ships Pt.6 Ch.3 (INS)
- IEC 61162, IEC 62288 Ed 2.0
### Performance Specifications and I/O Signals

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<tr>
<td>Linear mean settle point error (RMS) ≤ 0.1° Secant latitude</td>
<td><strong>Main</strong> 24</td>
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<tr>
<td>Static error (RMS) ≤ 0.1° Secant latitude</td>
<td><strong>Backup</strong> 24 VDC</td>
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<tr>
<td>Dynamic error ≤ 0.4° Secant latitude</td>
<td><strong>4 x</strong> IEC61162-1/2</td>
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<tr>
<td>Heading Resolution 0.1°</td>
<td><strong>24 VDC</strong></td>
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<tr>
<td>Rate of Turn Resolution ≤0.5 ±5% °/min</td>
<td><strong>5 x Sensor</strong> IEC61162-1/2</td>
</tr>
<tr>
<td>Freedom of Roll &amp; Pitch ±50°</td>
<td><strong>2 x Alarm Relay</strong> IEC61162-1/2</td>
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<td>Settling Time 2.9h</td>
<td><strong>Central Alarm Monitor</strong> IEC61162-1/2</td>
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<tr>
<td>Follow-Up rate 100°/sec</td>
<td><strong>1 x Speed Log</strong> IEC61162-1/2</td>
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<tr>
<td>MTBF 120,000</td>
<td><strong>1 x GPS</strong> IEC61162-1/2</td>
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<tr>
<td>North stabilization at power interruption ~3min</td>
<td><strong>1 x Magn. Heading</strong> IEC61162-1/2</td>
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<th>Accessories</th>
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<td>Bearing repeater compass with 360° card in a stand with azimuth device</td>
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<td>Start-Up Power Consumption</td>
<td>Bearing Repeater Compass with 360° card in bulwark console</td>
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<td>Operations Power Consumption</td>
<td>Prismatic Azimuth Device PV 23</td>
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<tr>
<td>Analogue Repeater Power Consumption</td>
<td>Repeater compass steering, console, bulk-head</td>
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<tr>
<td>Universal Digital Repeater</td>
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<td>Temperature range</td>
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<tr>
<td>Operation</td>
<td>-10°C to +55°C</td>
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<tr>
<td>Storage</td>
<td>-25°C to +70°C</td>
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<tr>
<td>Power Failure Alarm</td>
<td></td>
</tr>
<tr>
<td>Visible, audible and potential no contact</td>
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<tr>
<td>Protection Grade</td>
<td></td>
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<tr>
<td>IP 23 as per IEC/EN 60529</td>
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</tbody>
</table>

**Environmental Req & EMC**

In accordance with EN60945 (IEC 945 +1)

- Standard Magnetic Compass 0.5m
- Steering Magnetic Compass 0.35m

Reduced Magnetic Clearance to:

- Standard Magnetic Compass 0.3m
- Steering Magnetic Compass 0.3m

**Accessories**

**AMERICAS**
New Orleans, LA USA
Tel: +1-504-328-9171

**ASIA**
China, Shanghai
Tel: +86-21-5179-0199
Hong Kong, Sheung Wan
Tel: +852-2581-9122
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South Korea, Busan
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Denmark, Copenhagen
Tel: +45 (0)77-33-6633
Germany, Hamburg
Tel: +49 (0)40-299-000
The Netherlands, Vlaardingen
Tel: +31 (0)10-445-1600
Norway, Bergen
Tel: +47 (0)55-94-9494
United Kingdom, London
Tel: +44 (0)20-8329-2000

**For more information, please contact:**

www.sperrymarine.com
Specifications and features subject to change without notice.
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