The Dynamic Solution for Mega Yachts, Cargo Vessels and Cruise Liners

- High dynamic accuracy
- Very short settling time
- Heading, roll, pitch, x/y/z rate and heave sensor
- Solid-state, fully electronic strap down technology
- Small size and low weight
- No moving parts
- Self-synchronizing repeater compass

Sperry Marine
NAVIGAT 3000
Fiber-Optic Gyrocompass and Attitude Reference System
**Performance**

<table>
<thead>
<tr>
<th>Heading</th>
<th>≤ 0.4° secant latitude RMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roll / Pitch Angle</td>
<td>≤ 0.1° for angles ≤ 45° RMS</td>
</tr>
<tr>
<td>Rate of Turn</td>
<td>≤ 0.018° / minute</td>
</tr>
<tr>
<td>x / y Rate</td>
<td>≤ 0.4° / minute</td>
</tr>
<tr>
<td>Heave</td>
<td>0.1 m</td>
</tr>
</tbody>
</table>

Secant Latitude = 1 / cosine latitude

Performance in accordance with IMO A.424 (XI), IMO A.821 (19), ISO 8728 & ISO 6328 (2001)

**Range**

| Heading | 0° to 360° |
| Roll & Pitch | ± 45° (± 180° with reduced accuracy) |
| Rates (X, Y, Z) | ± 90° / second |

**Setting Time**

| Static Conditions | ≤ 10 minutes ≤ 78° LAT |
| Sea Conditions | ≤ 4 minutes ≤ 45° LAT |

**Environmental Conditions**

In Accordance with IEC EN 60945

Ambient Temperature

| Operation | -15°C to +55°C |
| Storage | -35°C to +70°C |

**Type Approved**

MED (Wheelmark)

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**Signal Outputs**

| NMEA (TTL) | 12 Repeaters |
| NMEA (TTL) | 2 all data |
| IEC61162-1 | 2 all data |
| IEC61162-1 FAST | 1 HDG, ROT, ROLL, PITCH |
| IEC61162-2 SUPER FAST | 1 all data |
| 6 steps / degree | 2 heading outputs (24 VDC / 0.25A each) |

Analogue ± 10 V: 3 rate signals

Analogue 4 to 20 mA: 1 rate signal

**Signal Inputs**

Position: IEC61162-1

Speed: IEC61162-1, 200 pulse / nm (max. 100kn)

**Power Requirements**

115/230V AC 50/60Hz and / or 24 DC (18V - 36V)

Includes automatic switchover to 24V emergency power supply in accordance with GMDSS Rules for INMARSAT / SES terminals

**Power Consumption**

| AC | 64 W |
| DC | 40 W |

Each Repeater Compass: 6 W

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**Sensor Unit**

| Width | 102 mm |
| Depth | 278 mm |
| Height | 128 mm |
| Weight | 3.5 kg with tray |

Magnetic clearance to Standard Magnetic Compass: 0.30 m

Steering Magnetic Compass: 0.30 m

Protection Grade: IP23

**Interface and Power Supply Unit**

| Width | 524 mm |
| Depth | 341 mm |
| Height | 123 mm |
| Weight | 15 kg |

Magnetic clearance to Standard Magnetic Compass: 0.70 m

Steering Magnetic Compass: 0.45 m

Protection Grade: IP23

**Control and Display Unit**

| Width | 288 mm |
| Depth | 96 mm |
| Height | 55 mm |
| Weight | 1.6 kg |

Magnetic clearance to Standard Magnetic Compass: 0.70 m

Steering Magnetic Compass: 0.40 m

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**Specifications and features subject to change without notice.**

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