

# Sperry Marine

## NAVIGAT 3000

Fiber-Optic Gyrocompass and Attitude Reference System



Sensor Unit



Interface and Power Supply Unit



Control and Display Unit

## 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

## Performance

Heading:	≤ 0.4° Secant Latitude RMS
Roll / Pitch Angle:	≤ 0.1° for angles ≤ 45°RMS
Rate of Turn:	≤ 0.018° / minute
x / y Rate:	≤ 0.4° / minute
Heave:	0.1m
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

## Settling Time

Static Conditions:	≤ 10 minutes ≤ 78° LAT ≤ 4 minutes ≤ 45° LAT
Sea Conditions:	≤ 30 minutes

## 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)

## Signal Outputs

NMEA (TTL)	
Heading Output:	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

## 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

For more information, please contact:

### 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

Japan, Tokyo  
Tel: +81 (03)-3863-7401

Singapore  
Tel: +65-6274-3332

South Korea, Busan  
Tel: +82-51-247-7455

Taiwan, Kaohsiung  
Tel: +886-7-33-17-786

### CANADA

Nova Scotia, Halifax  
Tel: +1 902-468-9479

British Columbia, Vancouver  
Tel: +1 604-821-2090

### EUROPE

Belgium, Antwerp  
Tel: +32 (0)3233-1433

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, New Malden  
Tel: +44 (0)20-8329-2000