

NAVIGAT 3000

Fiber-Optic Gyrocompass and Attitude Reference System



SENSOR UNIT



INTERFACE AND POWER SUPPLY UNIT



CONTROL AND DISPLAY UNIT

The Dynamic Solution for High-Speed Craft

- High dynamic accuracy under all conditions
- Very short settling time
- Heading, roll, pitch, rate and heave sensor
- Solid-state, fully electronic strapdown technology
- Small size and low weight
- No moving parts
- Self-synchronizing repeater compasses

NAVIGAT 3000

Performance (Under all Conditions)

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

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. 100km)

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

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
Protection Grade	IP23

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