

# Sperry Marine

## NAVIGAT 200



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

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

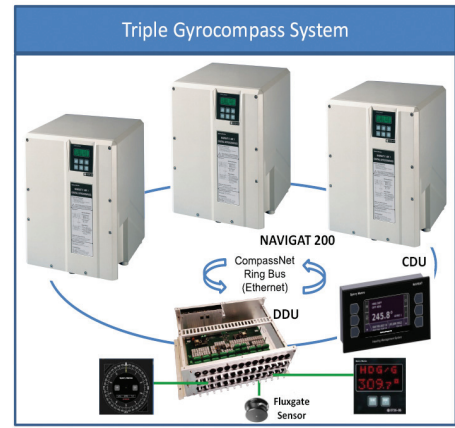
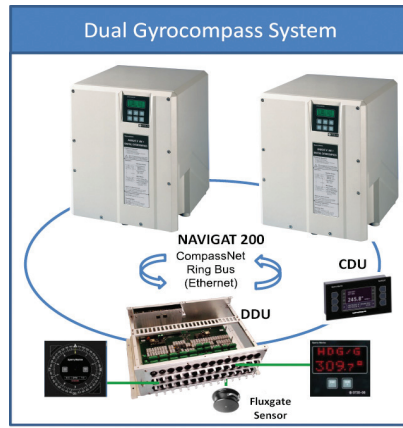
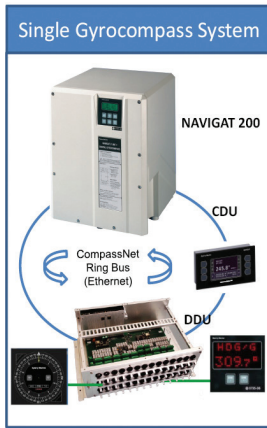
### Features

- 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 by DNV GL 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)
- IEC 61162, IEC 62288 Ed 2.0 (2014-07).

# Configurations



## 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	DDU	CDU
Start-Up	96W		
Operations	64W	101w	8W
Analogue Repeater		+7W per Repeater	
Universal Digital 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)

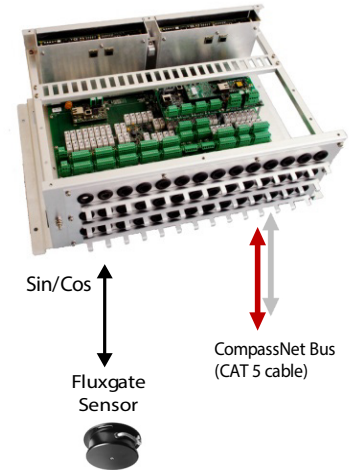
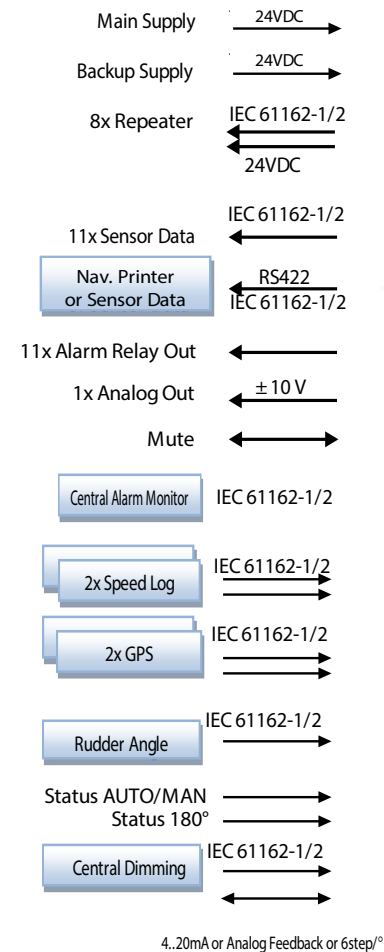
### Magnetic Clearance to:

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



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Specifications and features subject to change without notice.  
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