

NAVIGAT X Mk1



KONGSBERG

Digital Gyrocompass System

The NAVIGAT X Mk 1 is a microprocessor controlled gyrocompass system with integrated automatic north speed error correction.



Features

- Comprises one single unit
- Control and display unit in front cover with 4-digit heading display and operating keys
- Ease to install and ease to service
- High-speed-follows-up system 100° /sec.
- Rate-of-turn output
- Automatic static north speed error correction
- Integrated TMC (Transmitting Magnetic Compass) interface
- Compass monitoring function
- Highly accurate digital heading transmission by shaft encoder
- Self-synchronizing repeater compasses
- +/-180° alignment error correction in set-up program
- Will drive up to 12 analogue repeaters
- 7 independent serial outputs RS422 and NMEA 1083
- 2 independent, 6 steps per degree, heading outputs
- Outputs to voyage data printer
- Intensive to horizontal acceleration
- Twin rotors and liquid damping system eliminate latitude errors
- Gyro system remains north stabilized during power interrupts for up to 3 minutes
- Monitoring and alarm function for all voltages, gyroscopes and follow-up system

Description

The high speed NAVIGAT X Mk 1 is a microprocessor controlled gyrocompass system with integrated automatic north speed error correction.

The unique method of supporting the gyrosphere by means of mere buoyancy ensures north stabilization during short power interruptions. No more than 2° error may be expected after a loss of power for 3 minutes and once the power is restored, the correct heading will be achieved without the normal settling period. This combined with twin rotors virtually eliminates error in latitude.

The gyrocompass provides 12 independent serial data outputs to analogue or digital repeaters.

Integrated monitoring and alarm functions for the power supply, gyroscope temperature and current and the follow-up system ensure secure and trouble-free system operation.

The single unit design with low-weight hard polyurethane foam housing allows the gyrocompass to be installed on any bridge.

An optional switch-over unit for twin gyrocompasses provides for complete redundancy of all input and output signals and thus ensures the independence of the individual compasses.

Navigat X Mk1 User Manual

SJ Ball



Navigat X Mk1 User Manual:

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