

Sperry Marine

NORTHROP GRUMMAN

NAVIGAT X MK 2



Digital Gyrocompass System

NAVIGAT X MK 2 Digital Gyrocompass System

OVERVIEW

The Sperry Marine NAVIGAT X MK2 digital marine gyrocompass system provides accurate North-speed error-corrected true heading as well as rate-of-turn data under all operating conditions and is a cost-effective solution for all international carriage requirements.

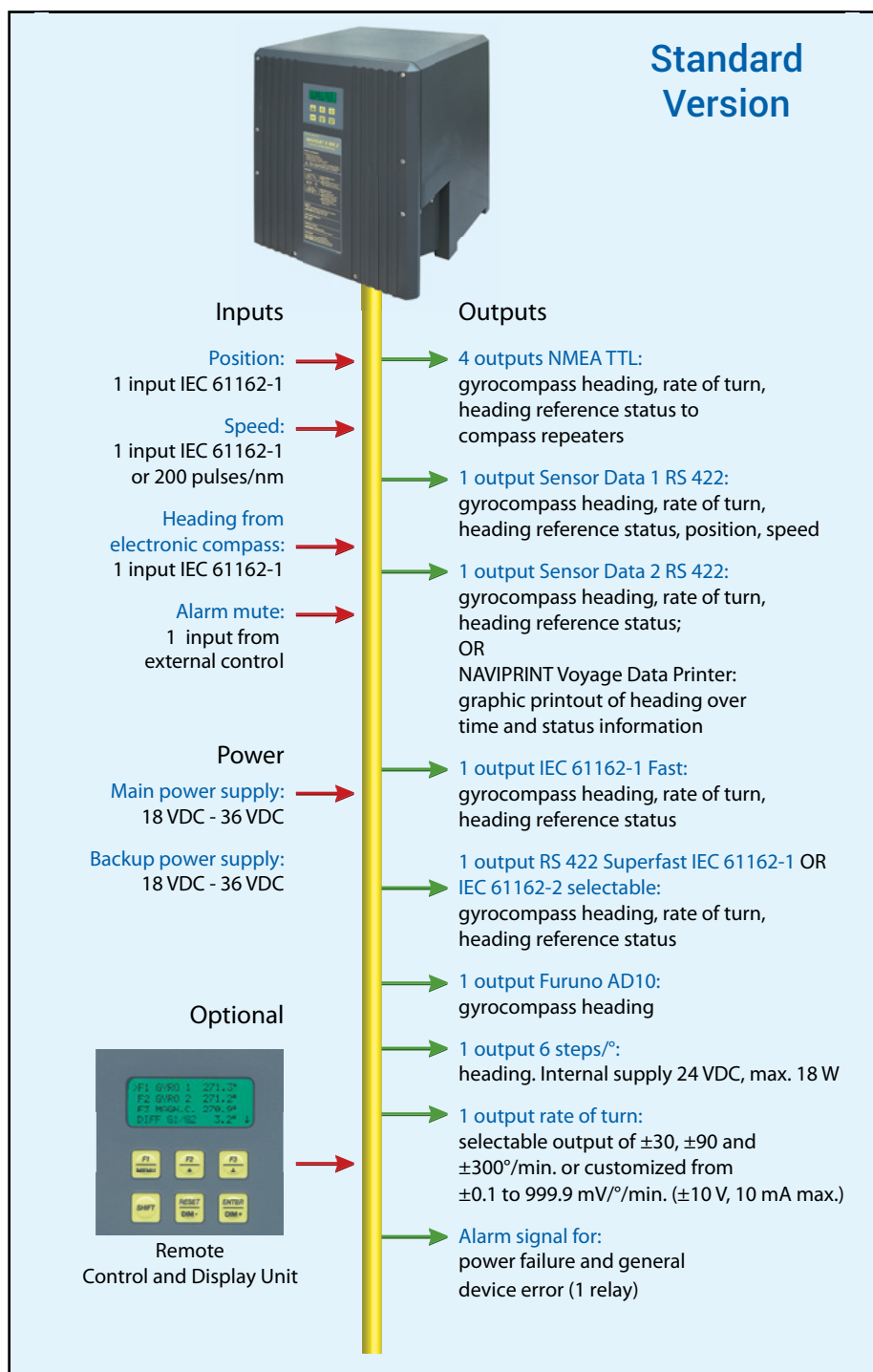
The NAVIGAT X MK 2 gyrocompass is a compact, one-unit design that runs on a 24-volt power supply with two independent DC inputs. It can drive up to four analogue repeaters and provides five additional serial data outputs and one six-steps/degree output. Based on the proven Sperry Marine NAVIGAT X MK 1 design, the gyrocompass provides better than 40,000 hours mean time between failures. The system remains north-stabilized even during short power interrupts of up to 3 minutes.

The NAVIGAT X MK 2 complies with International Maritime Organization (IMO) regulations A.424(XI) and A.694(17) as well as the International Standards Organization (ISO) standard 8728, and is fully type-approved by Germanischer Lloyd (GL) in accordance with the Marine Equipment Directive (MED) 96/98/EC.

The NAVIGAT X MK 2 completes the Sperry Marine range of heading sensors, which now comprises the NAVIGAT 3000 fiber-optic gyrocompass, the NAVIGAT X MK 1 and the NAVIGAT X MK 2 digital gyrocompasses.

MAIN FEATURES

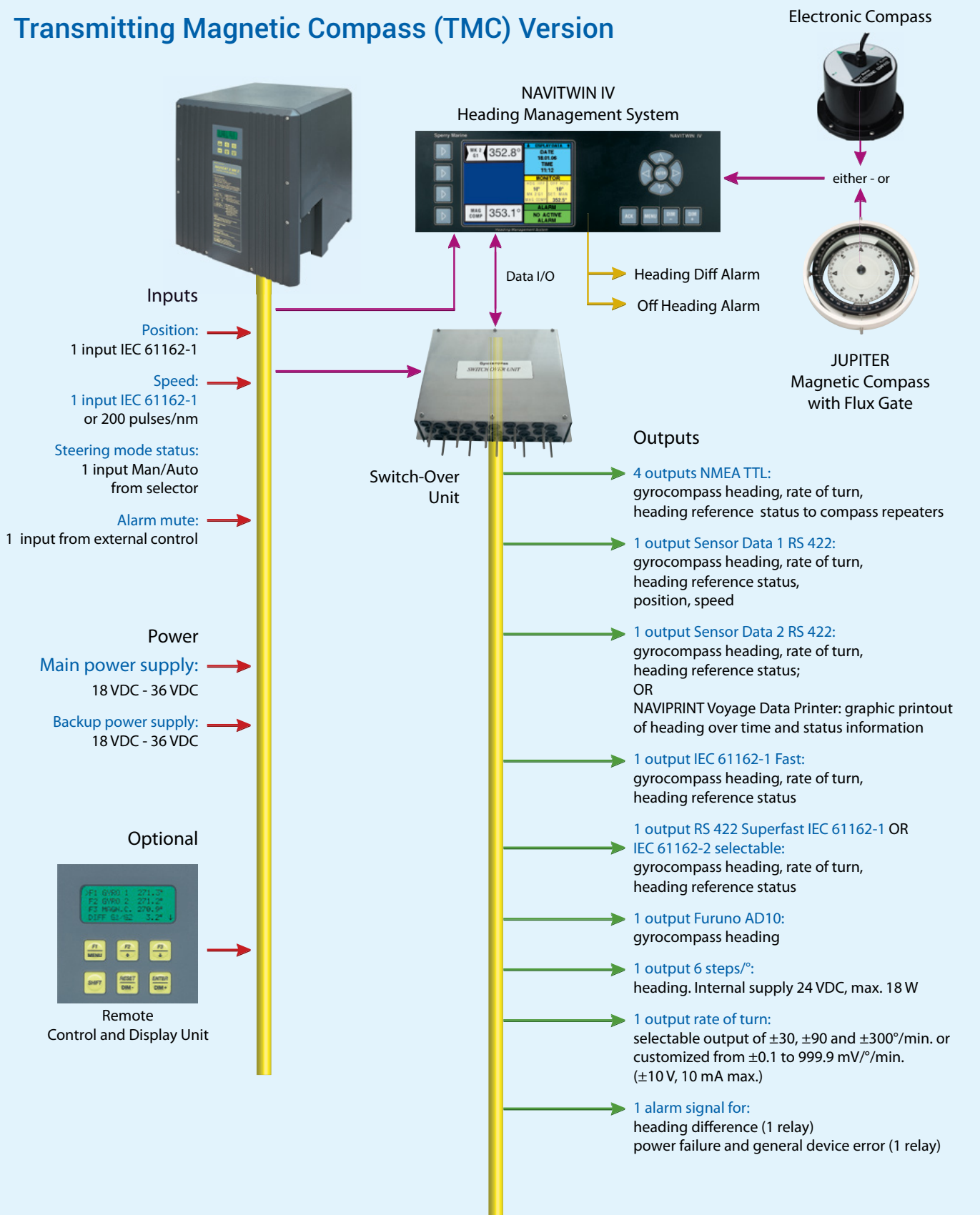
- Performance in accordance with IMO A.424(XI), A.694(17), and ISO 8728
- MED (Wheelmark) approval
- Comprises one single unit
- Power supply: two independent 24 VDC inputs
- Control and display unit (not removable) in front cover with 4-digit heading display and 6 operating keys
- Heading accuracy
 - Static $\leq 0.1^\circ$ secant latitude
 - Dynamic $\leq 0.4^\circ$ secant latitude
 - Settle point $\leq 0.1^\circ$ secant latitude error
- Automatic static north speed error



correction – no extra unit required

- Rate-of-turn output
- High speed transmission and follow-up system $100^\circ/\text{sec}$
- Highly accurate heading data transmission by means of shaft encoder
- Self-aligning repeater compasses with serial interface IEC-61162-1 / RS 422
- Gyro system remains north-stabilized during power interruptions within the required accuracy
- Twin rotors (19,000 rev./min.) and liquid damping system eliminate latitude error
- $\pm 180^\circ$ electronic alignment error correction in setup program (mechanical correction is not necessary)
- High MTBF (40,000 hours)
- 18-month maintenance intervals
- Monitoring and alarm functions for all voltages, gyroscope current and follow-up system
- Short maintenance and repair times – low service costs

Transmitting Magnetic Compass (TMC) Version



MAIN FEATURES

- Permanent storage of operational data (gyrosphere current, temperature, elapsed operation time)
- Over 250 Sperry Marine service locations worldwide

POWER CONSUMPTION

Start-up	DC 80 W
Operation	DC 45 W
Each repeater (analogue)	6 W

DIMENSIONS AND WEIGHT

Width	404 mm
Height	520 mm
Depth	420 mm
Weight	25 kg

ACCESSORY EQUIPMENT



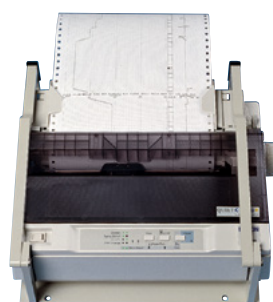
Bearing repeater compass with 360° card in a stand with azimuth device PV 23
Total weight: 16.1 kg



Bearing repeater compass with 360° card in a bulwark console
Weight: 10.3 kg



Prismatic azimuth device PV 23
Weight: 1 kg



NAVIPRINT
Navigation Data Printer
Weight: 8 kg



Universal Digital Repeater
Weight: 1.0 kg with cable



Steering repeater compass for console mounting with 360° and 10° compass cards
Weight: 1.5 kg



Console repeater compass with 360° card
Weight: 1.5 kg



Bulkhead repeater compass with 360° card
Weight: 2.9 kg

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