

Anschütz gyro compass

# Standard 22 NX M

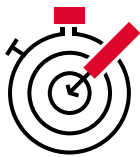
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# Anschütz solution for naval ships - gyro compass Standard 22 NX M

Based on our experience with the well-known predecessors Standard 20 M and Standard 22 M, the Standard 22 NX M comes with state-of-the-art technology and allows for a fast and user-friendly installation. Its high accuracy and operational safety even under harshest environmental conditions and in high latitudes make it a reliable partner - wherever you go.

## Key Benefits



### The upmost in reliability

The Standard 22 NX M features an outstanding reliability proven in a successful long-term test at our factory.

- Inductive and optical data transmission, no slip rings that are subject to wear
- Qualified acc. to MIL Standard and BV0430
- Type approved acc. to IMO (Wheelmark, MED) also for high-speed craft and as rate-of-turn indicator



### Servicing made dead easy

Standard 22 NX M is easy to install and maintain.

- Standard 22 NX M is installed by use of standard cabling (redundant CAN bus) - less wiring effort
- Webserver functionality for configuration, software update and diagnosis – no need for proprietary tools.
- The Standard 22 NX M allows for a configuration in 2 minutes by uploading a configuration file.



### Long time secure investment

With an unsurpassed price-performance ratio over lifetime, Standard 22 NX M offers best value for money in naval newbuilding and retrofit projects.

- Low lifecycle cost because of long maintenance intervals (18-24 months) and long lifetime of gyro-sphere.
- Local spare part support reduces/avoids downtimes

## Learn more



Steering repeater



Bearing repeater



Digital repeater



## Modular Anschütz gyro compass portfolio

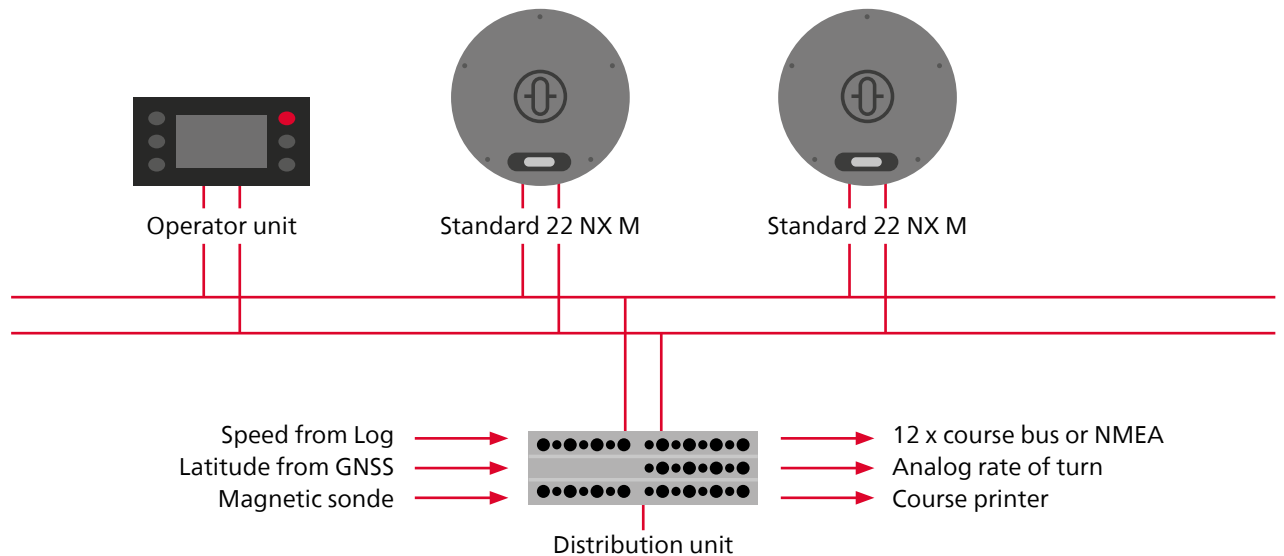
Visit the website to learn more about our modular range of gyro compasses, typical system configurations and related accessories such as repeaters.

[www.raytheon-anschuetz.com/gyro-compasses](http://www.raytheon-anschuetz.com/gyro-compasses)

## Heading management systems

In a heading management system, Standard 22 NX M can be connected with up to three gyro compasses and a magnetic compass – where required, also with full redundancy in distribution (compliant with the deman-

ding class notations such as DNVGL NAUT-OSV/OC/AW, LR IBS or ABS NIBS). Heading management systems add safety by reducing the navigator's workload and additional features make the day-to-day work easier.



## Main Features

### Up-to-date hardware

- Seamless integration of up to four sensors, including third-party compasses (up to three gyro compasses, or two gyros and a GNSS THD, and a magnetic compass).
- More interfaces and formats for serial data communication, communication via Ethernet and Bridge Alert Management without the need for a distribution unit.
- Works as stand-alone compass (with or without an operator unit) or as a complex gyro compass system.

### User-friendly functions

- Heading monitor with manual or automatic switchover of gyro compasses
- Automatic correction of magnetic heading by deviation and variation (with GNSS receiver)
- Long-term stability of heading performance (rock-solid technology)
- Quick settling mode reduces the settling time to 1 hour.

## Gyro compass retrofit

We provide retrofit solutions for Anschütz gyro compasses. It is possible to replace only parts of a compass system or to integrate existing magnetic and gyro compasses to renew an existing compass system cost-effectively step by step. The existing periphery, e.g. the existing shock absorber, can be continuously used and thus the investment volume can be kept within a reasonable range.



Visit our website for Gyro Compass Retrofit and learn more about how we can offer you the perfect technical solution.

[www.raytheon-anschuetz.com/gyro-compass-refit](http://www.raytheon-anschuetz.com/gyro-compass-refit)

# Technical Data

## Accuracy

- Settle point error 0.1°secLat., RMS
- Static error 0.1°secLat., RMS
- Dynamic error 0.4°secLat., RMS (periodic roll and pitch + horizontal acceleration) secLat.=1/cosLatitude

## Availability

- Settling time 1h (< 3°) with «Quick settling»
- MTBF system > 100.000 hrs
- MTTR < 30 min

## Qualification

- IEC 60945 (all parts)
- IEC 60529 IP 22 (all parts)
- Mil-Std 461 E (Standard NX M, OU)
- Mil-Std 810 F (Standard NX M, OU)
- BV0430 (Standard 22 NX M)

## Power supply

- 24 V DC (18 – 36 V DC)
- 80 W to 140 W (start-up) compass
- 5 W operator unit
- 36 W distribution unit

## Signal input

3 serial inputs for

- Position: GPS (IEC 61162)
- Speed: Log (IEC 61162), 200 pulses/NM)
- Alert communication (BAM) (IEC 61162)

2 Ethernet interfaces (teaming mode)

## Signal output

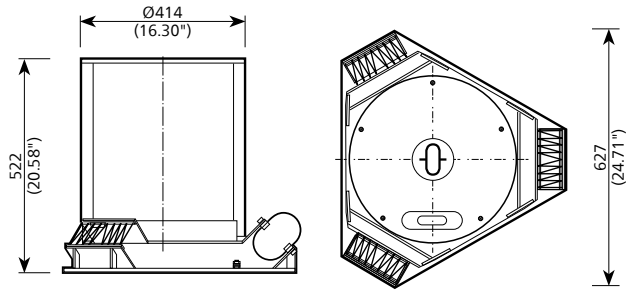
4 serial outputs for

- Heading (IEC 61162, Course Bus)
- ROT (IEC 61162)
- Alert communication (BAM) (IEC 61162)

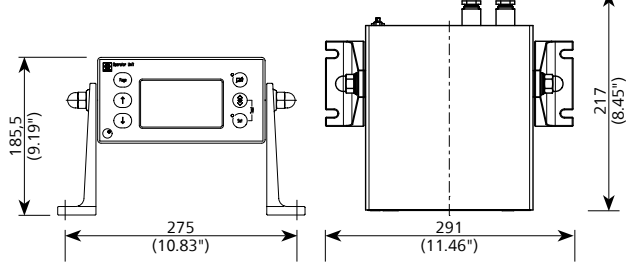
1 analog output (ROT +/- 10 V DC)

2 Ethernet interfaces (teaming mode)

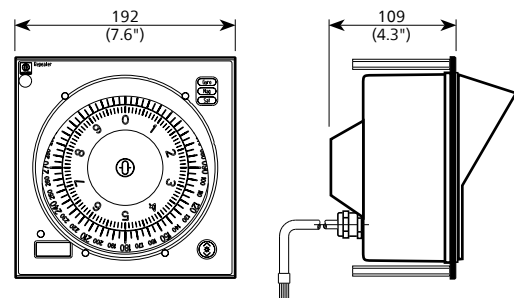
## Standard 22 NX M on shock absorber 27,5 kg



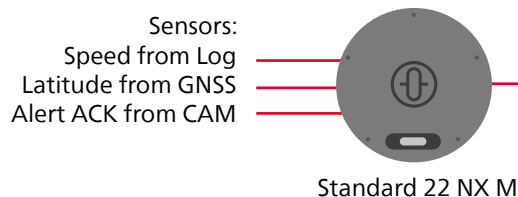
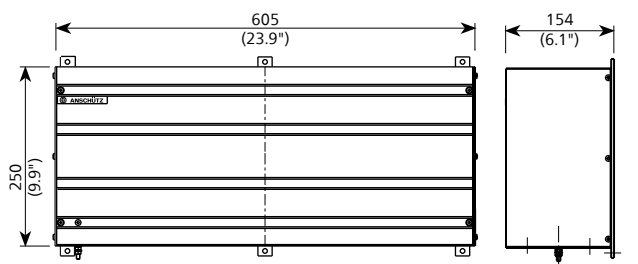
## Operator unit in casing 3,5 kg



## Steering repeater compass 1,7 kg



## Distribution unit 7,5 kg



- Course Bus / NMEA (Heading/ROT)
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- Course Bus / NMEA (Heading/ROT)
- Sensor specific alerts to CAM
- Analog rate of turn
- Ethernet (Sensor/alert data in/out)
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