

Anschütz gyro compass

Standard 22 NX M



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

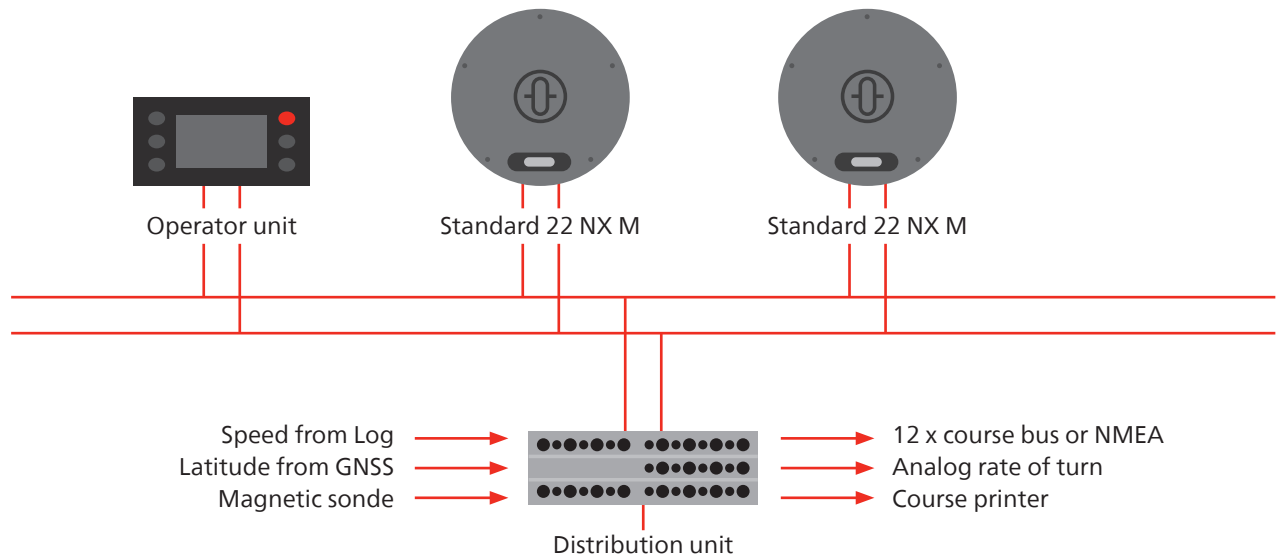
Visit the website to learn more about our modular range of gyro compasses, typical system configurations and related accessories such as repeaters.

www.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.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

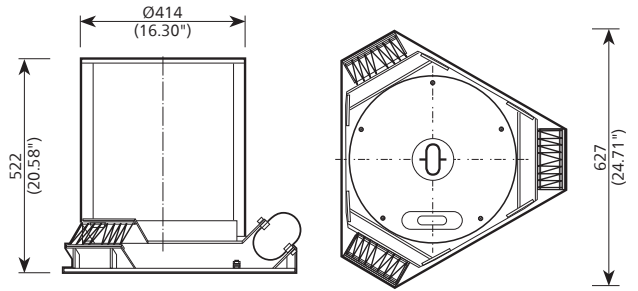
4 serial outputs for

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

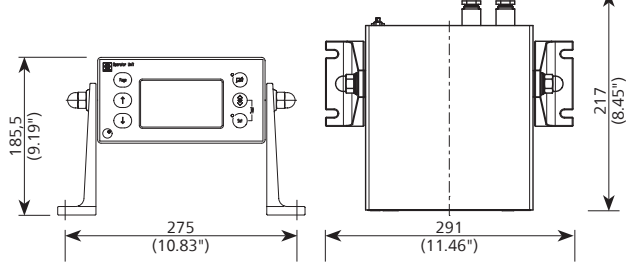
1 analog output (ROT +/- 10 V DC)

2 Ethernet interfaces (teaming mode)

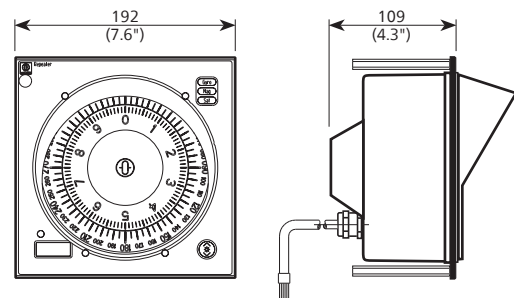
Standard 22 NX M on shock absorber 27,5 kg



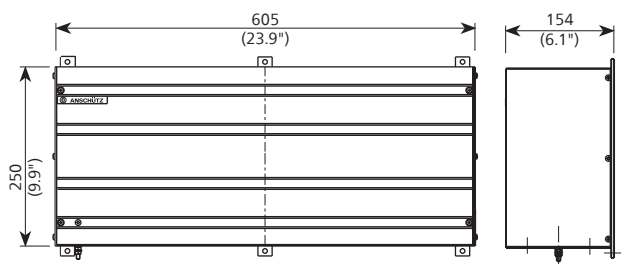
Operator unit in casing 3,5 kg



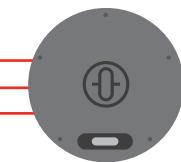
Steering repeater compass 1,7 kg



Distribution unit 7,5 kg



Sensors:
Speed from Log
Latitude from GNSS
Alert ACK from CAM



Standard 22 NX M

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