

Digital Gyro



STD 22 Compact

**Sophisticated
and reliable
technology
made by the
gyro compass
inventor**

The new Gyro Compass Standard 22 Compact has an unparalleled accuracy of 0.1 degrees and offers best performance up to a speed of 70 knots.

The Gyro Compass Standard 22 Compact comes with automatic speed/latitude error correction and dynamic error correction which makes it really unique in this class. By using the »Quick Settling Mode« the course information is provided with in just one hour after switching the compass on.

In addition the Gyro Compass Standard 22 Compact will surpass your expectations with short installation time which makes it also very attractive for retrofitting. Raytheon Marine offers a wide range of course transducers to allow the inexpensive integration of the Gyro Compass Standard 22 Compact into an existing system.

Proven technology and long maintenance periods guarantee that the new Gyro Compass Standard 22 Compact is a secure investment on your ship – for a long time.



Raytheon Marine offers a wide range of accessories to meet your demands

- Analog and digital repeaters
- Additional output formats: Step, SIF
- Distribution Boxes
- Step and synchro course transducers for the efficient connection of your existing equipment (retrofitting)
- Quick Settling for the reduction of settling time to one hour

Features at a glance

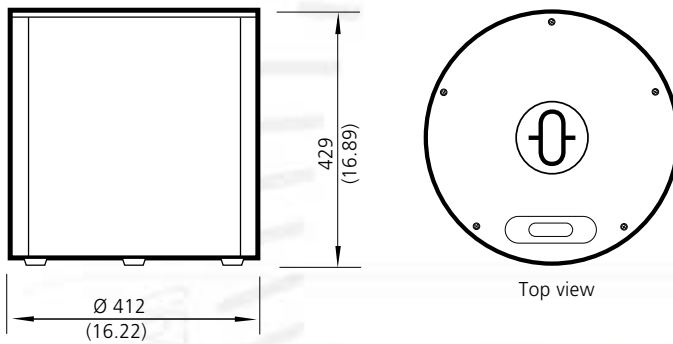
- High accuracy of 0.1 degrees
- Automatic speed/latitude error correction and dynamic error correction
- Quick settling mode (option)
- Wide range of accessories to meet your demand
- Proven technology and long maintenance periods
- IMO approved for standard and High-Speed Crafts



Steering Repeater Compass

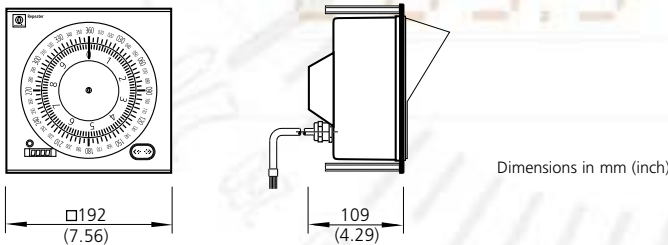


Digital Repeater



Top view

Gyro Compass STD 22 Weight 13.5 kg



Dimensions in mm (inch)

Steering Repeater Compass Weight 1.7 kg

Technical Data

Accuracy

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

Supply voltage / Power consumption

24 V DC (18 to 36 V)
 30 W to 105 W (start-up) sensor unit

General data

Permissible ambient temperature
 Operation: -10° C to +55° C
 Storage: -25° C to +70° C without supporting liquid
 Settling time: 1 h (< 2°) with »Quick settling« (option)
 Rate of follow-up: admissible rate of turn of the ship is unlimited
 Permissible roll and pitch angle: ±45°

Signal outputs

- 1 x Anschütz course bus
 - 2 x Anschütz course bus or NMEA 0183

Optional outputs

- Step (6 steps/degree)
 - SIF

Alarms

Built-in alarms: power failure, gyro failure, system failure
 Alarm outputs: potential-free relay contacts

Environmental conditions

Acc. to Publication IEC 60945,
 Marine Navigational Equipment
 Type approved acc.to MED 96/98/EC
 MED 2002/75/EC

For larger gyro systems please refer to the Gyro Compass Standard 22 brochure.

Subject to alteration due to technical developments without notice.