

CG1000: HIGH PERFORMANCE FIBER OPTIC GYROSCOPE BASED COMPASS



■ PRODUCT DESCRIPTION

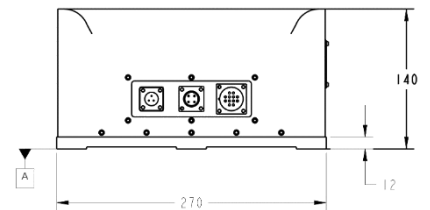
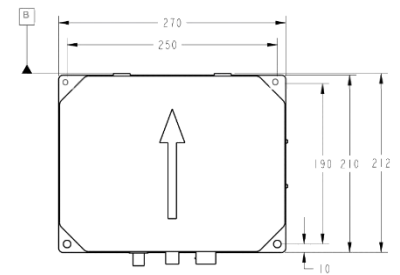
CG1000 is a new generation of strapdown compass system for civilian ships. It uses advanced fiber optic gyroscope and strapdown calculation technology to autonomously measure the ship's angular motion, and has the ability to continuously provide the carrier's heading, pitch, roll and other information to the outside world, providing basic information support for ship navigation at sea.

Fiber optic gyro compasses have the advantages of long lifespan, maintenance free, short start-up time, low cost, and no need for regular replacement of gyro balls, which can completely replace traditional gyro compasses.

■ PRODUCT MAIN SPECIFICATION

	CG1000-A	CG1000-B
Heading accuracy	≤0.5°	≤0.75°
Attitude accuracy	≤0.02°	≤0.02°
Lifting and sinking accuracy	5cm & 5%	5cm & 5%
Start time	≤5s	≤5s
Alignment time	≤20min	≤20min
Data update rate	0.1Hz-100Hz	0.1Hz-100Hz
Underwater	Can be customized to 3000m ~ 6000m deep	
Supply voltage	18-36V (DC)	
Working temperature	-40°C~65°C	
Storage temperature	-50°C~80°C	
Power waste	≤20W	
Shell material	Aluminum alloy	
Weight	≤5kg	
Physical dimensions	177×202×138 (mm)	
Interface form	1×12 core connector 12-core connector to RS422 user data conversion Display and control data of 12-core to 10-core connector 1×4-core connector compass main body and backup power supply 1×3-core connector 3-core connector to RS232 GNSS receiver	

■ PRODUCT DIMENSION



SIZE: 177*202*138mm

■ PRODUCT APPLICATION

- Different type of ship's navigation