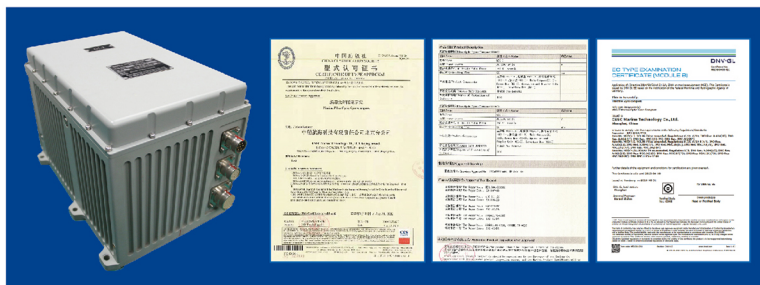


BLUESUN-110 FIBER-OPTIC GYRO COMPASS MFG-I

• Product introduction

The Blue Sun-110 (MFG-I) contains 3 high-precision fiber optic gyroscopes and 3 quartz accelerometers to provide information on the carrier's heading, pitch, roll, and rate of turning, with the CCS and EC certification.



• Product features

Safety: All solid state without moving parts, low failure rate; Unafraid to turn, turn frequently, and cut power.

Stability: Optical fiber compass material life of 25 years, design life of 15 years, the main compass warranty for five years, more than 200 sets installed in the past ten years, stable and reliable operation.

Save money: Fiber compass maintenance cycle free, reduce maintenance costs; High dynamic accuracy, conducive to autopilot control, more fuel saving.

Reassuring: Startup stability time ≤ 30 min; Small size, no space, support crew installation, half a day can be completed, low power, no noise.

• Parameters

Performance	Heading accuracy	$\leq 0.5^\circ \text{sec}\phi$
	Attitude accuracy	$\leq 0.05^\circ$ (RMS)
	Heave accuracy	$\leq 5\text{cm}$ or $5\%H$ (Whichever is bigger)
Interface	Output	4 x RS422 interface, 1 x CAN interface
	Frequency	$\leq 200\text{Hz}$ (Configurable)
	Protocol	NMEA0183
	Input	Support DVL and GNSS input
Physical features	Dimensions	280mm \times 203mm \times 187mm
	Weight	$\leq 11\text{kg}$
	Input voltage	(DC) 12 ~ 32V、24V $\pm 10\%$ (Rated)
	Power consumption	$\leq 30\text{W}$
Time	Setting time	$\leq 10\text{min}$ (Static), $\leq 30\text{min}$ (All condition)
Environment	Operation temperature	$-20^\circ\text{C} \sim +60^\circ\text{C}$

- Application field

Automatic navigation of all kinds of surface ships and unmanned boats.

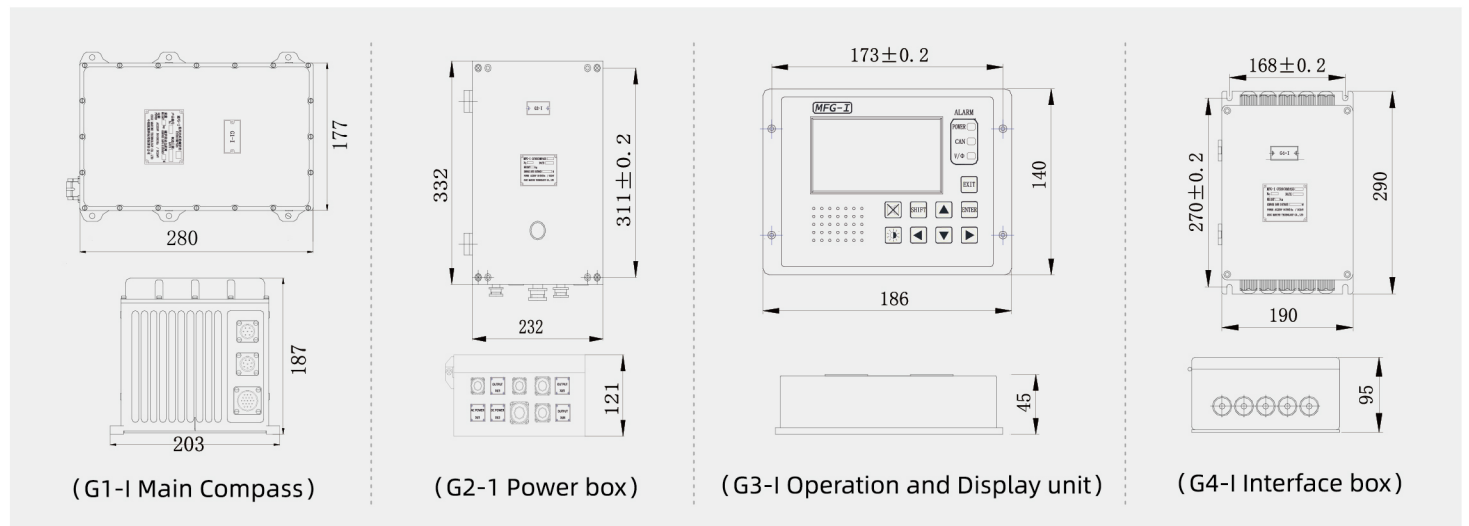
Attitude and heading reference system for Marine engineering system such as dynamic positioning system.

- Standard system composition

number	name	model	code name	weight (kg)	installation
1	Main Compass	G1-I	MFG101	≤ 11	Floor mount
2	Power box	G2-I	MFG102	≤ 6	Floor mount / Wall mount
3	Operation and Display unit	G3-I	MFG103	≤ 2	Flush mount
4	Interface box	G4-I	MFG104	≤ 3	Floor mount / Wall mount

According to the needs of different users, power supply box, operation display unit and interface box are optional. Digital compass repeater can be added on the basis of the above units to meet the needs of heading repeater.

Dimension figure



Configuration

