

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

Save money: No need for maintenance-free and replacement of gyro sphere (gyro sphere 5 years warranty)

Stability: All solid state without moving parts, low failure rate.

Safety: Blackout/Restart /Frequent steering cause no damage.

Double insurance: Supports 100% dual redundancy, which meets IMO requirements for safe return to port.

Save time: ≤30min for the north-seeking.

Reassuring: Support crew installation, half day can be done.

Convenient: Low power, fast follow up, no heading error caused by rolling, with heading management function.

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Portable: Small size, easy to carry, convenient transportation.

• Parameters

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

• Application field

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

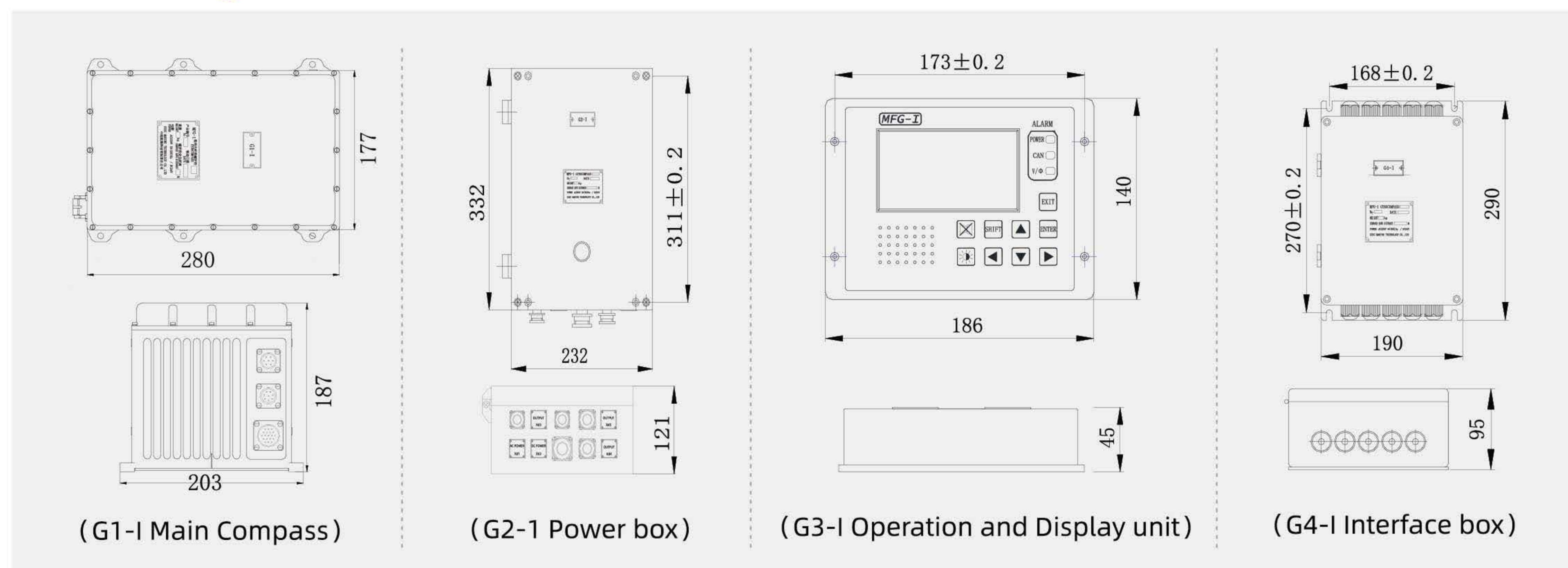
Attitude and heading reference system for Marine engineering system such as dynamic positioning system.

• 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

