

• Application field

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

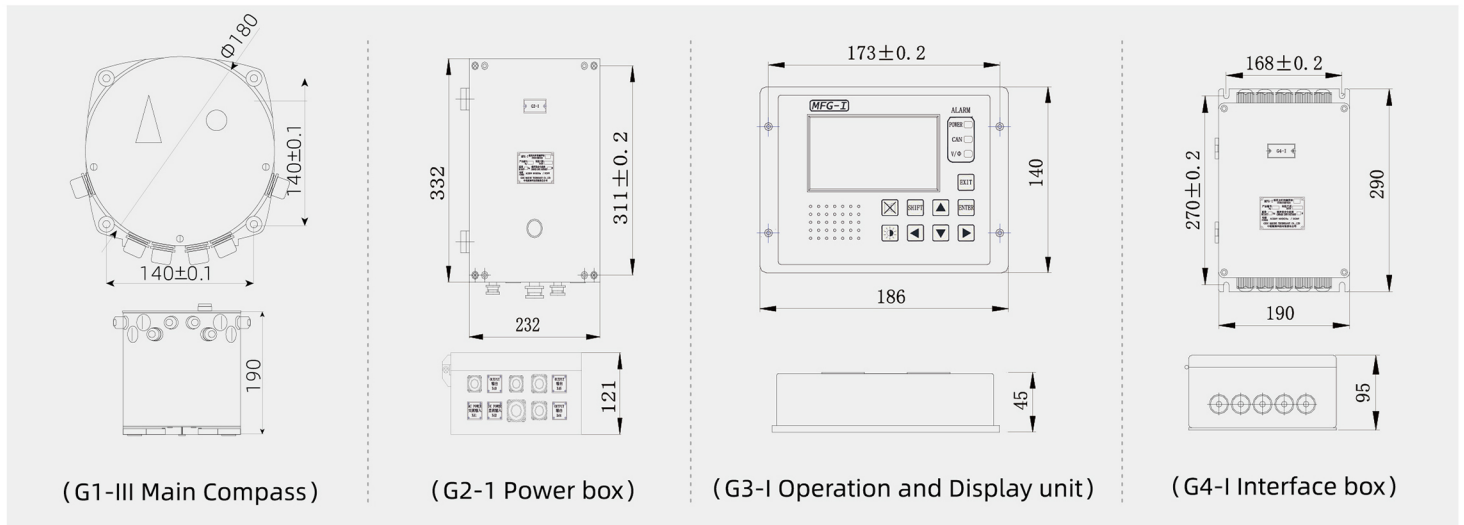
Attitude and heading reference system for Marine engineering system such as dynamic positioning system.

• Standard system composition

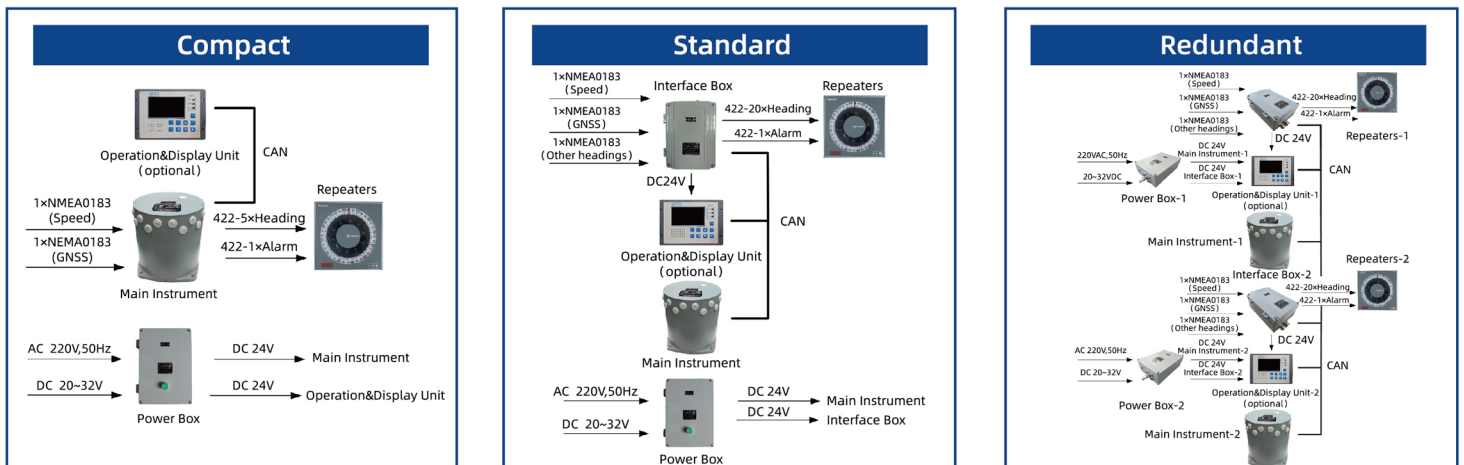
| number | name | model | code name | weight (kg) | installation |
|--------|----------------------------|-------|-----------|-------------|--------------------------|
| 1 | Main Compass | G1-I | MFG301 | ≤ 6 | Floor mount |
| 2 | Power box | G2-I | MFG102 | ≤ 6 | Floor mount / Wall mount |
| 3 | Operation 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



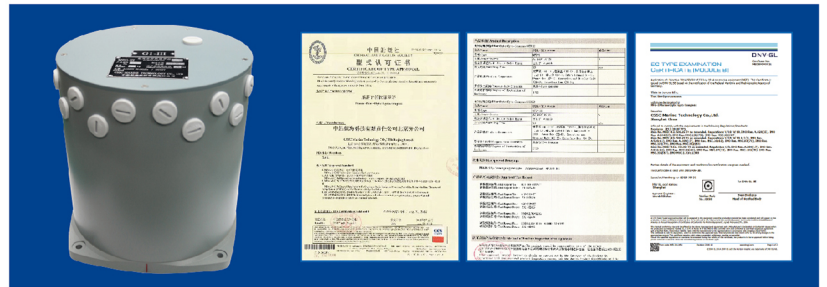
Configuration



BlueSun-60 Fiber-Optic Gyro compass MFG-III

• Product introduction

The Blue Sun-60 (MFG-III) 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 | $\leq 0.1^\circ$ (RMS) |
| | Heave accuracy | $\leq 5\text{cm}$ or $5\%H$ (Whichever is bigger) |
| Interface | Output | 6 x RS422 interface, 1 x CAN interface |
| | Frequency | $\leq 200\text{Hz}$ (Configurable) |
| | Protocol | NMEA0183 |
| | Input | Support DVL and GNSS input |
| Physical features | Dimensions | $\Phi 180\text{mm} \times 190\text{mm}$ (X, Y, Z) |
| | Weight | $\leq 6\text{kg}$ |
| | Input voltage | (DC) $12 \sim 32\text{V}$, $24\text{V} \pm 10\%$ (Rated) |
| | Power consumption | $\leq 10\text{W}$ |
| Time | Setting time | $\leq 10\text{min}$ (Static), $\leq 30\text{min}$ (All condition) |
| Environment | Operation temperature | $-20^\circ\text{C} \sim +60^\circ\text{C}$ |