

Inertial Navigation System for Gyrocompass

FN 205G

FIBERPRO's Inertial Navigation System for gyrocompass purpose, FN 205G provides accurate heading, attitude and positional data for any type of surface vessel. It is ideal for customers seeking a cost-effective and reliable solution for navigation and control of commercial and defense vessels. FN 205G combines a high-accuracy FOG-based IMU and GPS receiver within a single enclosure for gyro compassing, inertial navigation, AHRS, stabilization, guidance and motion sensor that cover a wide range of applications. FN 205G consists of three axis fiber optic gyros, three axis Quartz Servo accelerometers and a strap-down processor. It provides heading, attitude, position, altitude and so on, which can be transferred by RS422(UART) at up to 200 Hz.



Features

- Heading Accuracy : $0.5^{\circ} \cdot \text{sec}(\text{LAT})$
- Roll & Pitch : 0.1° RMS
- Operating Voltage : 9 to 36 VDC
- Data Output Rate : Up to 200 Hz
- Operating Temperature : $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$
- Dimension : 176(L)×150(W)×110 (H) mm
- Weight : 3.5 kg
- Interface : RS-422