

FG-700B Fiber Optic Gyro Compass and Attitude Reference System



Introduction

FG-700B model attitude & heading reference system is a best choice, for whom wants to get the low cost, high reliability and safety at same time, to measure the heading, attitude, position, velocity and acceleration of carriers. Based on fog strapdown technology, a special focus on the heave and pitch & roll gets this unit a very high cost-performance ratio competing with other motion sensor.

Features

- Cost-effective fiber optic gyro and quartz accelerometer
- Compact design, plug and play
- Real-time heave
- Allow restart on sea and fast settling time
- Interfaces for GNSS/Odometer/DVL
- Configurable navigation modes
- Excellent environmental adaptability
- High reliability and maintenance-free
- Military standards

Application

- Platform
- Navigation and control for land vehicle
- Antenna stabilization and control
- UAV navigation
- Attitude and heading reference

Specifications

Performances	Start-Up Time	5min
	Attitude Accuracy	0.05deg, 1 σ
	Heading Accuracy	0.5 \times sec(Lat) deg, 1 σ
	Heave	2cm
Input Ranges	Angular Rate	\pm 400deg/s
	Acceleration	\pm 20g
Work Environment	Work Temperature	-40 $^{\circ}$ C~+70 $^{\circ}$ C
	Storage Temperature	-55 $^{\circ}$ C~+85 $^{\circ}$ C
	Vibration	0.04g ² /hz @ 20~2000hz
	Shock work / no damage	30g @ 6ms/50g @ 11ms
Electrical Characteristics	Work Voltage	28VDC
	Consumption	\leq 20W
	Communication	RS422/RS232/CAN/Ethernet
Interface	Input	2 series port & Ethernet
	Output	2 series port & Ethernet
	Pulse	4 inputs & 2 outputs
	Data formats	NMEA 0183, ASCII, Binary
Reliability	MTBF	85000 hrs
	Warranty	3 years
	Calibration interval	No