

Miniature Integrated Inertial/Satellite Navigation and Orientation System

MININAVIGATION-1



IS INSTALLED

on board all types of surface crafts. System generates dynamic parameters required for ship aids stabilization

FEATURES:

- Based on FOGs
- Digital input and output
- Short readiness time
- Long service life
- Low power consumption and heat generation
- Low weight and small dimensions
- Various operation modes

GENERATES:

- Pitch, roll, yaw angles
- Pitch, roll, yaw angular rates
- Heave parameters



System Mininavigation-1 comprises the strapdown inertial measurement unit based on FOGs and miniature accelerometers and onboard microcomputer in a single package.

The system generates pitch/roll/yaw angles and angular rates, and components of displacement, speed and acceleration of linear oscillations. System Mininavigation-1 receives data from satellite navigation systems GPS/GLONASS, log, gyrocompass and transmits it to the users via serial ports RS232/422/485 with frequency up to 100 Hz.

Data from the external navigation aids can be entered automatically or manually.



SPECIFICATIONS

	Limiting errors
Pitch/roll/yaw angles	0.1 deg
Heave	0.1 m
Angular rate components	0.1 deg/s
Accuracy of data transmission from GPS/Glonass receiver determined by characteristics of receiver used	
Power consumption	50 W
Overall dimensions	280x180x120 mm
Weight	5.5 kg
Mean time between failures	5000 h
Full service life	15 years



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