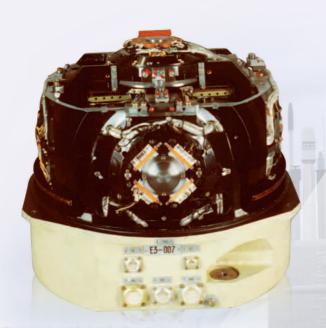
# Miniature navigation complex

# **APPASSIONATA-E**



## IS INTENDED

to generate and output navigation data for marine navigation, shipborne weapons, technical aids and systems of the submarines



#### **FUNCTIONS:**

- Control of the navigation complex by one operator from the operating navigator panel without continuous watch at the gyro room
- Monitoring of the operational condition of the devices and automatic troubleshooting



## SPECIFICATIONS

Errors in the main navigation parameters:

position for a 48 hour interval between corrections	5 km
course	6 arc min
speed through the water	0.15 kt
speed over the ground	
from the INS	0.8 kt
roll and pitch angles	3 arc min

The complex generates navigation data under the following operational conditions:

- · Speed up to 20 kt
- Heave up to 3 m/s
- · Circulation with angular rate up to 3°/s
- Roll with an amplitude up to 20° and a 7-10 s period
- Pitch with an amplitude 5° and a 7-12 s period
- · Long-duration trim up to 6°
- Total angle of roll up to 35°
- Total angle of pitch up to 25°

The complex is installed on conventional submarines of various projects, which determines its modification, configuration and parameters

# COMPOSITION:

- Duplicated miniature inertial navigation system (INS)
- Gyrocompass
- · Log and echo sounder
- · Receivers of satellite and radio navigation systems
- Magnetic compass
- EDIS
- · Navigation data processing and transmission system
- · Power supply system

# **POWER SUPPLY:**

- From ship main DC 175-320 V,
- From ship main AC 220 V 50 Hz (provision is made for redundancy)
- Power consumption 4.5 kW

The navigation complex provides continuous operation during 2.500 h with probability P≥0.96

The special simulator is available to train and maintain practical skills in operating the navigation complex. It can be supplied by a special order



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