

Морские навигационные системы Marine navigation systems

Гирокомпас PGM-Surveyor Gyrocompass



ООО ПНПК-Морская Электроника

PGM-Surveyor

APPLICATION

Gyrocompass PGM-Surveyor provides shipboard hydrographic equipment with accurate measurement of ship motion: heading, pitch, roll and heave in a variety of user-selectable formats. Light, robust and compact it meets the requirements and demands of survey works.

Thanks to a wide range of interfaces PGM-Surveyor may be used in any marine vessel. The unit utilizes a DTG which provides exceptional performance, reliability whilst a low cost of ownership as there is no need for routine maintenance.

Gyrocompass keeps stable heading readings at rate of turn higher than 200 /s that makes the system ideal for use on fast survey crafts and in river/harbour environments.

PGM-Surveyor meets the following standards: IMO A 424 (XI), IMO 821 (19), IEC 60945, ISO 8728-99, ISO 16328:2001, EMC Directive, MED 96/98/EC.

TECHNICAL DATA

● Display type	360° compass card and VFD display
● Settle point error	0,1° x secant latitude
● Static accuracy	0,05° x RMS secant latitude
● Dynamic accuracy	0,2° x secant latitude
● Follow up speed	200 °/sec
● Settling time	<45 minutes, to within 0,7°
● Latitude input	Automatic via RS232/RS422, NMEA 0183 from GPS or Manual
● Speed input	Automatic via RS232/RS422 NMEA 0183 from log or pulse/contact closure at 100, 200 or 400 pulse/nm or Manual
● Latitude compensation	from 80° N to 80° S
● Speed compensation	0-90 knots
● Gimbal limits	± 45° pitch and roll
Outputs:	
● Step	Step by step (5V TTL) 6 steps per degree
● Synchro	1 x 2.0V, 400Hz, 360° (ratio 1:1) 8V line to line
● Serial data	5 x RS422 5 x RS232 5 x 20mA loop
● Analog	ROT ± 30, 60, 90, 120, 180, 300, 1200°/min System ready Gyro fail
● Input voltage	24VDC (18-36 VDC)
● Start-up current	3A at switch on
● Dimensions	288mm (H) x 240 mm (W) x 329 mm (L)
● Weight	15.5 kg
● MTBF	40 000 hours
● Service interval	no schedule maintenance, calibration recommended every 2 years

OPERATING CONDITIONS

● Operating temperature	from -15°C + 55°C
● Storage temperature	from -25°C to + 80°C
● Shock	10 g



**ПЕРМСКАЯ НАУЧНО-ПРОИЗВОДСТВЕННАЯ
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