

Introducing an innovative breakthrough in electromagnetic compass technology

INTEGRATED HEADING SENSOR

Model PG-1000

- Electromagnetic compass poviding a highly accurate and stable readout of ship's compass heading
- Maintenance free operation
- Automatic compensation for deviation and heeling error
- Auto correction of magnetic variation error with a GPS receiver input providing variation data with respect to the area
- Compact waterproof case for a simple installation
- Heading data output in NMEA 0183 and AD-10 formats



The FURUNO PG-1000 is a new, inexpensive electromagnetic compass. It provides a highly accurate and stable readout of the ship's heading thanks to the sophisticated structure by three-axis magnetometer, inclinometer and integral vibrating gyrosensor.

The PG-1000 detects terrestrial magnetism and produces compass data. The data can be utilized in serial formats such as NMEA 0183 and FURUNO AD-10. It is sent to various equipment that need accurate and stable heading data. Typical applications include Radar Echo Trail and True Motion, Video Plotters, Scanning Sonars, etc.

When connected with a GPS navigator, magnetic variation correction can be made automatically. A True Heading readout is possible as modern GPS receivers output compass variation data in memory with respect to the vessels geographic areas. Because of its high accuracy, the PG-1000 can be used as a backup system for the vessel's gyro compass.

The PG-1000 also has an automatic re-calibration capability. Once compensated at the time of installation, the PG-1000 will continue to detect the magnetic deviation error and carry out automatic recalibration while it is in use.





SPECIFICATIONS OF PG-1000

1. Accuracy ±1.5° rms

2. Compensation Automatic compensation

for deviation and heeling error

10 m

3. Freedom of tilt ±45° 4. Angular velocity 60°/s max. 5. Output rate 40 Hz (25 ms)

6. Interface Output

NMEA0 183 format

\$-- HDG, \$-- HDT, \$-- HDM

AD-10 format

Input

 NMEA 0183 format \$- - RMC, \$- -VTG

ENVIRONMENT (IEC 60945 testing)

-15° to +55°C Temperature: Waterproofing: IPX5 (IEC 60529), CFR-46 (USCG standard)

POWER SUPPLY 10 to 35 VDC, less than 3 W

EQUIPMENT LIST

Standard

1. Heading Sensor PG-1000 1 unit

2. Interface Cable (with 2 x 6p connectors) MJ-A6SPF0007-100

3. Installation Materials

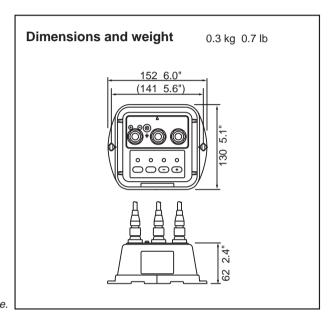
Note: This is heading sensor utilizes the earth's magnetism. Therefore steel-boat installations should be carefully done.

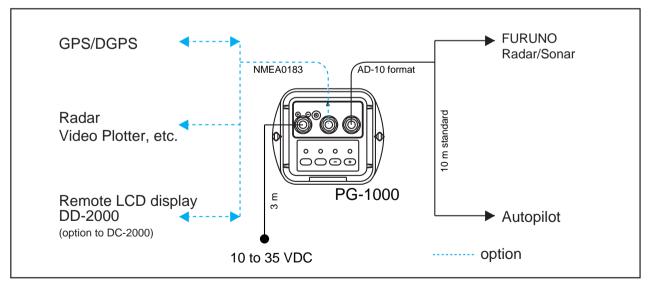
Optional

- 1. Interface Cable
 - For NMEA0183

MJ-A6SPF0012-100 (with 2 x 6p connectors), 10 m

MJ-A6SPF0003-050 (with 1 x 6p connector), 5 m MJ-A6SPF0007-100 (with 2 x 6p connectors), 10 m





SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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