

Introducing an innovative breakthrough in electromagnetic compass technology

INTEGRATED HEADING SENSOR

Model PG-1000

- Electromagnetic compass providing 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 re-calibration while it is in use.

SPECIFICATIONS OF PG-1000

- | | |
|----------------------------|--|
| 1. Accuracy | ±1.5° rms |
| 2. Compensation | Automatic compensation for deviation and heeling error |
| 3. Freedom of tilt | ±45° |
| 4. Angular velocity | 45°/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)

- | | |
|----------------|---|
| Temperature: | -15° to +55°C |
| 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 | 10 m |
| 3. Installation Materials | |

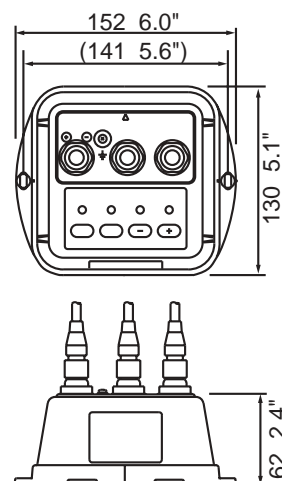
Optional

1. Interface Cable

- For NMEA0183
MJ-A6SPF0012-100 (with 2 x 6p connectors), 10 m
- For AD-10
MJ-A6SPF0003-050 (with 1 x 6p connector), 5 m
MJ-A6SPF0007-100 (with 2 x 6p connectors), 10 m

Dimensions and weight

0.3 kg 0.7 lb



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

GPS/DGPS

Radar
Video Plotter, etc.

Remote LCD display
DD-2000
(option to DC-2000)

10 to 35 VDC

NMEA0183

AD-10 format

PG-1000

FURUNO
Radar/Sonar

Autopilot

10 m standard

----- option

TRADEMARK REGISTERED MARCA REGISTRADA
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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