

Transmitting Heading Device with enhanced stability by a solid-state rate gyroscope

PRECISION FLUXGATE COMPASS

Model PG-500

- Inexpensive heading sensor with the highest accuracy and stability in this class of equipment
- Automatic correction for local magnetic variation with an appropriate GPS navigator or manual correction with an optional remote display RD-30
- High stability by a solid-state rate gyroscope
- Compact waterproof housing with visual status indicators for a simple installation
- Three heading data output ports: two IEC/NMEA ports, one AD-10 port
- High speed heading data output in IEC 61162-2 format



The FURUNO PG-500 is an inexpensive magnetic heading sensor for pleasure craft and coastal fishing boats.

The PG-500 consists of a fluxgate sensor, solidstate rate gyroscope, processor and serial data interfaces. The sensor detects the heading relative to the magnetic north as induced within the fluxgate coils by terrestrial magnetism. The processor monitors the Coriolis force output by the solid-state rate gyroscope and stabilizes the compass heading. Unlike an ordinary fluxgate that only outputs sine/cosine data, the PG-500 outputs the heading data in the format of IEC 61162, NMEA 0183 or FURUNO AD-10 format.

The PG-500 can provide True Heading by using its correction facilities for magnetic deviation and variation. Deviation (errors mainly caused by shipboard environment) can be automatically corrected by swinging the boat. Variation (errors subject to geographical location) can also be automatically corrected when interfaced with a GPS navigator. Correction for variation can manually be entered and indicated when an optional remote display RD-30 is connected.





SPECIFICATIONS OF PG-500

1. Accuracy

±1.0° (excluding magnetic anomalies)

2. Correction

Deviation: Automatic by swinging the boat

Variation: Automatic through GP-32/GP-1850W or

manual with RD-30.

3. Roll and Pitch +35° 4. Follow-up 25°/s

5. Output rate

IEC 61162, NMEA 0183:

selectable from 25, 100, 200 ms, 1 s

AD-10: Up to 25 ms

6. Interface (IEC 61162-1/61162-2*, NMEA 0183, AD-10) Output: HDT (True heading by compensating compass

heading for magnetic deviation and variation)

VTG (SOG, COG), RMC (* output only)

ENVIRONMENT (IEC 60945 testing)

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

CFR-46 (USCG standard)

POWER SUPPLY 12 - 24 VDC, 2 W

Standard

EQUIPMENT LIST

1. Heading Sensor PG-500

1 unit

2. Interface Cable (with 6p-6p connectors)

MJ-A6SPF0007-100, 10 m 3. Installation Materials

(including power/interface cable:

MJ-A7SPF0009-020 with 7p-7p connectors, 2 m)

Option

Interface Cable

For IEC 61162, NMEA 0183:

MJ-A7SPF0006-100 with 7p-7p connectors, 10 m MJ-A7SPF/SRMD-100 with 7p-7p connectors, 10 m MJ-A6SPF0003-050* with 6p connector, 5 m

(* also available for AD-10 format)

For AD-10:

MJ-A6SPF0007-100 with 6p-6p connectors, 10 m

■ The PG-500 is subject to magnetic anomalies, such as magnetic deviation due to steel hull, onboard cranes, nearby huge ships, marine cables, etc. as well as the local magnetic variation.

■ The PG-500 complies with IMO MSC.116(73) when fitted with the RD-30 that indicates manually entered corrections. The PG-500 is not type approved to ISO 22090-2; ask your administration if it satisfies the SOLAS carriage requirements.



Remote Display RD-30

Self-learning, Adaptive Autopilot **MAV**pilot[™] Series

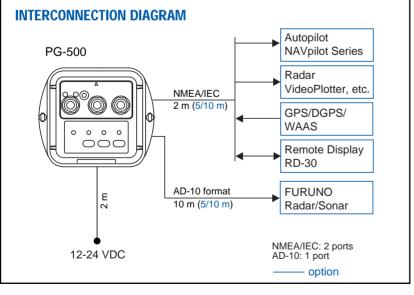


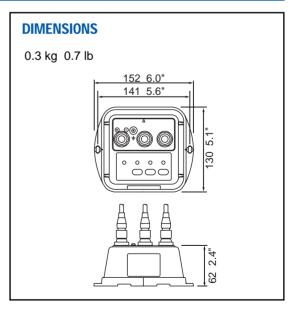


1 pc

The PG-500 is

an excellent compass to use with the NAVpilot Series.





SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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