

FURUNO®

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, solid-state 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.



The future today with FURUNO's electronics technology.

FURUNO ELECTRIC CO., LTD.

9-52 Ashihara-cho, Nishinomiya City, Japan Phone: +81 (798) 65-2111
Fax: +81 (0)798 65-4200, 66-4622 URL: www.furuno.co.jp

Catalogue No. M-1527b

TRADE MARK REGISTERED
MARCA REGISTRADA

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)

Input: VTG (SOG, COG), RMC

(* output only)

ENVIRONMENT (IEC 60945 testing)

Temperature: -15° to +55°C

Waterproofing: IPX5 (IEC 60529),
CFR-46 (USCG standard)

POWER SUPPLY

12 - 24 VDC, 2 W

EQUIPMENT LIST

Standard

- | | |
|--|--------|
| 1. Heading Sensor PG-500 | 1 unit |
| 2. Interface Cable (with 6p-6p connectors)
MJ-A6SPF0007-100, 10 m | 1 pc |
| 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.



Remote Display RD-30

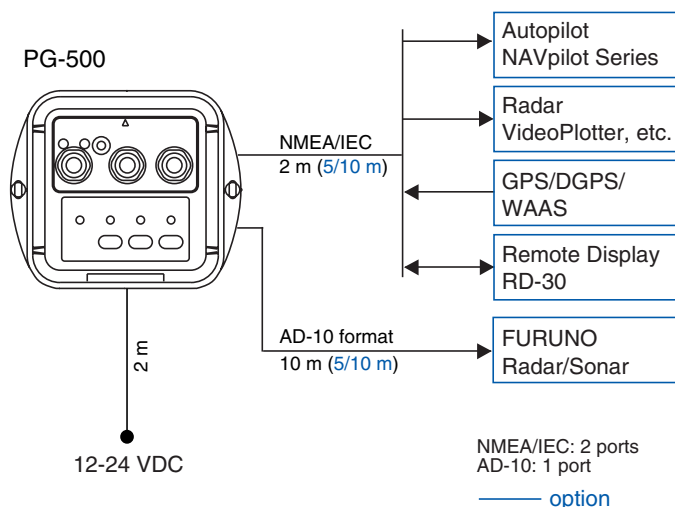
Self-learning, Adaptive Autopilot

NAVpilot™ Series



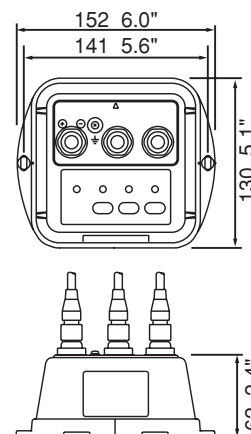
The PG-500 is an excellent compass to use with the NAVpilot Series.

INTERCONNECTION DIAGRAM



DIMENSIONS

0.3 kg 0.7 lb



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

FURUNO U.S.A., INC.

Camas, Washington, U.S.A.
Phone: +1 360-834-9300
Fax: +1 360-834-9400

FURUNO (UK) LIMITED

Havant, Hampshire, U.K.
Phone: +44 2392-441000
Fax: +44 2392-484316

FURUNO FRANCE S.A.

Bordeaux-Mérignac, France
Phone: +33 5 56 13 48 00
Fax: +33 5 56 13 48 01

FURUNO ESPAÑA S.A.

Madrid, Spain
Phone: +34 91-725-90-88
Fax: +34 91-725-98-97

FURUNO DANMARK AS

Hvidovre, Denmark
Phone: +45 36 77 45 00
Fax: +45 36 77 45 01

FURUNO NORGE A/S

Ålesund, Norway
Phone: +47 70 102950
Fax: +47 70 102951

FURUNO SVERIGE AB

Västra Frölunda, Sweden
Phone: +46 31-7098940
Fax: +46 31-497093

FURUNO FINLAND OY

Espoo, Finland
Phone: +358 9 4355 670
Fax: +358 9 4355 6710

FURUNO POLSKA Sp. z o.o.

Gdynia, Poland
Phone: +48 58 669 02 20
Fax: +48 58 669 02 21

FURUNO DEUTSCHLAND GmbH

Rellingen, Germany
Phone: +49 4101 838 0
Fax: +49 4101 838 111

LLC "FURUNO EURUS"

St. Petersburg, Russian Federation
Phone: +7 812 167 15 92
Fax: +7 812 766 55 52

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