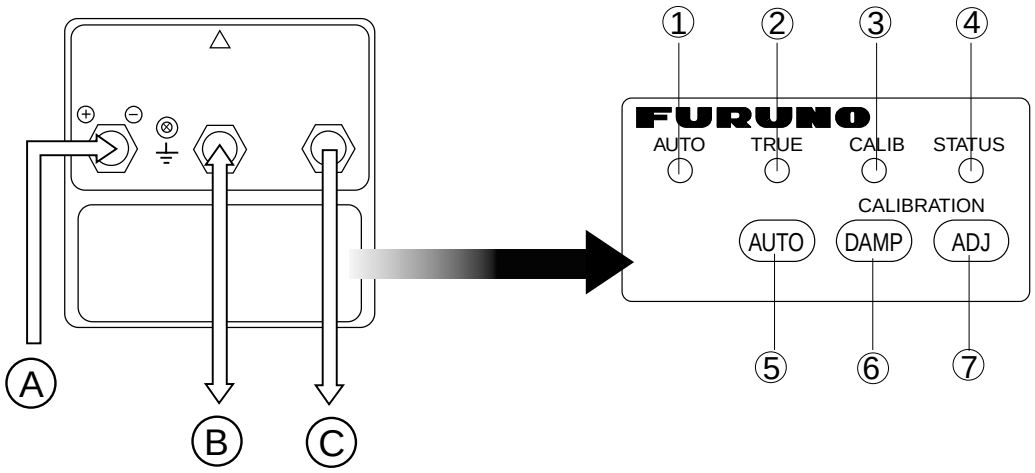
FURUNO®

INTEGRATED HEADING SENSOR
PG-500 Operator's Guide

The purpose of this Operator's Guide is to provide basic operating procedures for this equipment. For more detailed information see the Operator's Manual.



PG-500, front panel

(Connector)

Name	Equipment to be connected
Ⓐ 12-24 VDC	12-24 VDC or NAVpilot-500
Ⓑ NMEA	Current indicator, NavNet etc.
Ⓒ AD10	AD-10 Format

(LEDs)

Name	Meanings
① AUTO	On: Auto correction is on. Off: Auto correction is off.
② TRUE	On: True heading is output. Off: Magnetic heading is output.
③ CALIB	Off: Normal. Blinking: Correcting the deviation.
④ STATUS	On: Normal. Off or blinking: Error

(Keys)

Name	Functions
⑤ AUTO	Turns deviation corrections on and off.
⑥ DAMP	Smoothes heading data output.
⑦ ADJ	Corrects the heading.

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Turning the Power On/Off

Power to the sensor may be turned on or off at the mains switchboard.

Turn the mains switch on. The sensor checks the program version, ROM, RAM and deviation status in that order for proper operation.

Program version
The program version, denoted by the LEDs in binary notation, is shown.

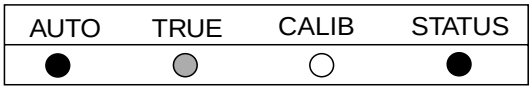
ROM, RAM check
AUTO LED lights: ROM is normal.
TRUE LED lights: RAM is normal.

Deviation status
All LEDs blink twice when the calibration is completed.

Automatic Distortion Compensation

When the magnetic field distortion changes, it is automatically compensated as follows.

1. Press the AUTO key more than two seconds to light the AUTO LED. The STATUS LED lights during the automatic distortion compensation function.



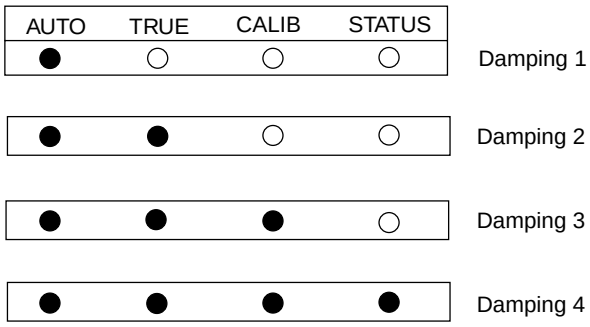
●: On
○: Off
◍: State depends on settings

2. To cancel automatic compensation, press the AUTO key more than two seconds, to turn off the AUTO LED.

Damping Control

The damping control determines how sensitively the sensor responds to change of ship's heading. When the damping value is large, the sensor responds smoothly.

1. Press the [DAMP] key more than two seconds. All LEDs go off, and then the current damping setting is shown by the LEDs.
2. Press the [DAMP] key to change the damping setting in the sequence of damping 1 -> 2 -> 3 -> 4 -> 1 -> …



●: On
○: Off

If three seconds passes with no operation, the damping setting is fixed, and the damping control mode is terminated.

Selecting Output Data Format

The sensor can output true or magnetic heading.

1. Connect Furuno GPS Navigator which can output data sentence RMC or VTG.
2. Set up magnetic variation (manual or automatic) at the GPS Navigator. When RMC or VTG is input to the sensor, the TRUE LED lights and then true heading is output to other equipment.
3. To return to magnetic heading output, disconnect the GPS Navigator.