

Anschutz autopilot

NautoPilot 5000



Fuel-saving, high precision autopilot NautoPilot 5000

NP 5000 is the top-of-the-range Anschütz autopilot and combines best steering performance with reduced rudder activity for less fuel consumption.

Key Benefits



Precise steering performance

Anschütz autopilot systems use proven steering algorithms and are well recognized for precise steering performance and reliability.

- Heading control mode, and in addition course control and track control modes
- In course control mode the autopilot compensates drift deviations automatically
- Approved as part of a track control system in combination with Raytheon Anschütz ECDIS and ECDIS systems of several other providers



Advanced functional range and fuel saving

Besides steering performance, NP 5000 offers a multitude of unique functions that support safe and economic autopilot operation.

- Fuel-saving thanks to weather adaptivity (ECO-mode)
- Simple adjustment of autopilots parameters by use of heading and rudder plotter
- Cross acceleration monitor for identification of dangerous situations
- High precision track controller (e.g. when sailing in archipelagos)

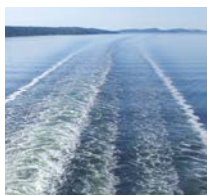


Easy familiarization for crews

Crews will feel familiar with NP 5000 after a few minutes due to its intuitive operating philosophy and a 5.7" graphical touch display.

- Main functions are operated via hard keys, e.g. course change by turning and pushing the knob
- Secondary functions are operated via soft keys on the touch screen
- Graphical information provided by the display eases operation

Learn more



Advanced steering with NP 5000

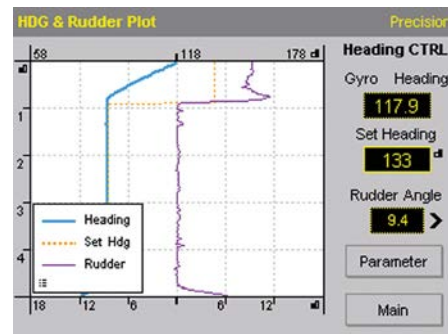
Visit the website to learn more about outstanding features of NP 5000 and about integration into NautoSteer AS and third-party steering gear control systems:
www.raytheon-anschuetz.com/nautopilot-5000/

Autopilot handling has never been easier



NP 5000 has a clear menu structure. A well-arranged, graphical presentation of information supports navigators in autopilot adjustments as well as in the optimization of steering performance.

NP 5000 is equipped with an integrated heading and rudder plotter, which provides a graphical indication of heading changes and rudder activity. This indication instantaneously indicates the steering performance of the autopilot due to the effects of changes to parameter settings such as rudder, counter rudder and yawing. The operator benefits from simple adjustments of the autopilot's settings to gain optimized steering performance and minimal rudder activity.



System integration

NP 5000 is easy to integrate in newbuilding or refit projects. The best way is to combine NP 5000 with a NautoSteer AS steering gear control system by using the redundant CAN bus. Autopilot control is simply activated by pushing the heading control button. For use in combination with other steering gear control systems or in refits, an easy to integrate interface unit is available. This interface unit provides a multitude of interfaces to the steering gear control system or directly to the steering gear.



Four different NP 5000 autopilot licenses

	Heading control	Course control	Weather adaptivity	Track control category C	Cross acceleration monitor	High precision track controller
NP 5100	✓					
NP 5300	✓	✓	✓			
NP 5400	✓	✓	✓	✓	✓	
NP 5500	✓	✓	✓	✓	✓	✓

Technical Data

Supply voltage & power consumption

- 24 V DC (18-36 V DC)
- Approx. 25 W

Signal inputs

- Heading (gyro, sat): THS, HDT, Course Bus
- Heading (magnetic): HDG, THS, HDT, HDM, Magnetic Sonde, Course Bus
- Speed: VHW, VBW, VTG
- Position: GGA, GLL, RMC, GNS

ECDIS

- according to IEC 62065 (track control system)
- NMEA telegram APB (waypoint steering for NP 5100 and NP 5300)

Signal outputs to steering gear

- 2 switching outputs (24V DC – 110V DC, max. 48 W)
- 2 analog outputs (+/- 10 V DC, max. 5 mA, or 4–20 mA)

Status/alarm outputs

- Off-heading
- Heading monitor
- Steering failure
- System failure
- Bi-directional central alarm reset
- Autopilot on

Type approved as

- Heading control system
- Heading control system for high-speed craft
- Part of a track control system

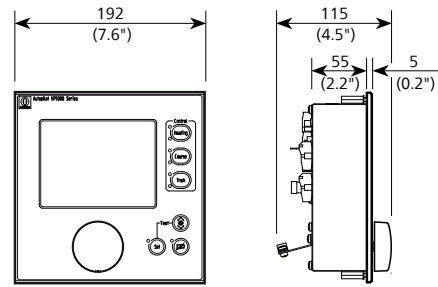
Type of enclosure acc. to IEC/EN 60529

- Autopilot operator unit: IP23 / IP56 (front side)
- Autopilot interface: IP 12

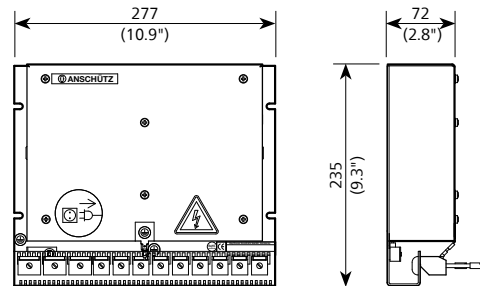
Temperature range

- Operation: -25°C to + 55°C (autopilot operator unit)
-15°C to + 55°C (autopilot interface)
- Storage: -40°C to + 70°C

NP 5000 operator unit 1.5 kg



Autopilot interface AS 3 kg



Feedback unit 4 kg

