

NautoPilot® NP 60



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The NautoPilot NP 60 has been specially designed for small ships. It is based on over 80 years of experience in automatic steering. This versatile autopilot offers highest precision in heading control and waypoint operating mode and gives best flexibility to fulfill your individual needs.

PRECISION AND BEST FLEXIBILITY

The NP 60 can be operated in heading control and waypoint operating mode. Due to the automatic adaptation to the ships speed and the built-in intelligence, the NP 60 caters for an efficient use of the steering gear reducing wear and fuel consumption. With the push of a button you can change between working modes – e.g. from transit to trawling. But the NP 60 will also assist you in manual steering. Follow-up and non-follow-up tillers can be connected to the NP 60. These tillers are equipped with a take-over function to take over the control from the autopilot and vice versa.

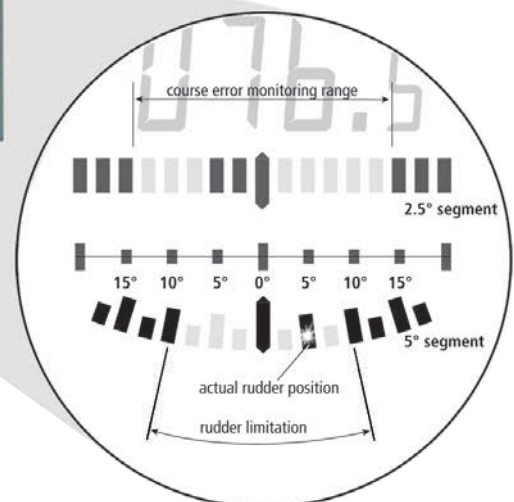
SAFETY FOR AUTOMATIC STEERING

In an emergency situation a dodge manoeuvre can be performed directly from the NP 60 or via the follow-up and non-follow-up tillers. The point of control is always indicated in the display of the NP 60.

A watch alarm is user definable. It can be reset directly from the NP 60. An audible and visible alarm is given if the limits in heading control or waypoint steering are exceeded or speed and heading sensor information are disturbed.



All important information at a glance





APPROVED FOR DIFFERENT REQUIREMENTS

The NautoPilot NP 60 can be used on ships with monohulls and on catamarans in combination with:

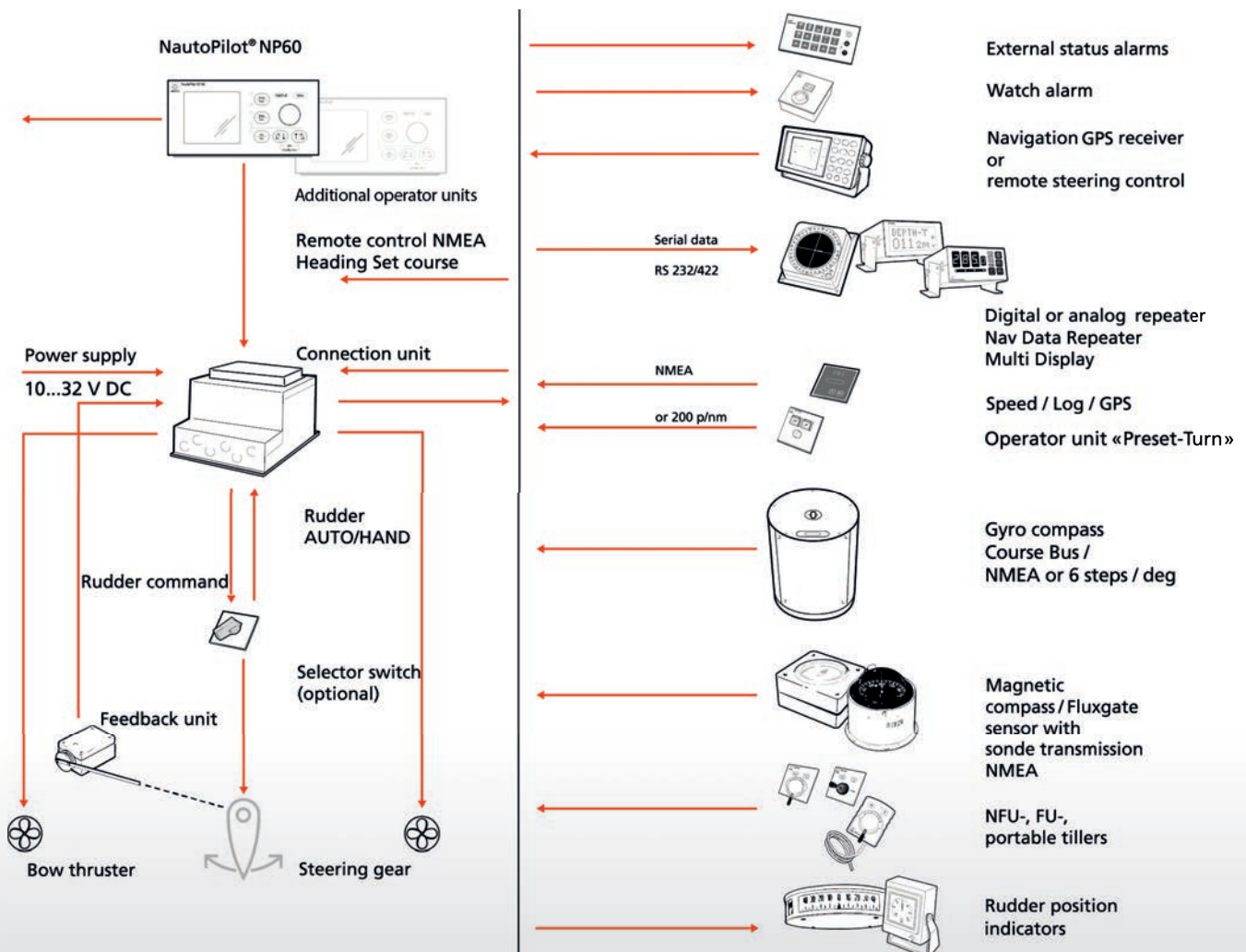
- Steering gears with switching and proportional solenoids
- Rudder propellers
- Twin-rudders
- Water jet drives

NautoPilot NP 60 is type approved and in addition approved as a heading control system for standard and high-speed craft up to 70 knots both in accordance to the international maritime organisation (IMO) standards.

MODULAR SYSTEM

A wide range of accessories are available to fulfill your individual needs:

- Remote autopilot operator units
- Analog and digital compass repeaters that can be directly connected to NP 60
- Follow-up and non-follow-up steering tillers with take-over function
- Rudder position indicators
- GPS receiver for waypoint steering (autopilot sentence B of NMEA telegram format)
- Signal unit as remote alarm panel



TECHNICAL DATA

Supply voltage & power consumption

- 24 V DC (10– 32 V DC)
- Approx. 10 W

Signal inputs

- Gyro compass / satellite compass
 - Course Bus or NMEA telegrams HEHDT, GPHDT
 - 6 steps per degree
- Magnetic compass
 - NMEA telegrams HCHDT or HDM
 - With magnetic compass sonde 108-010
- Speed log
 - NMEA telegrams VTG, VHW
 - 200 pulses/nm
- Position receiver
 - NMEA telegrams APB, APA
- Remote control
 - NMEA telegram HSC

Signal outputs

- Outputs to steering gear
 - 2 switching outputs (24 V DC, max. 2.0 A)
 - 2 analog outputs (+/- 10 V DC, max. 5 mA)

Monitoring/alarm outputs

- Off heading
- Off track
- Heading monitor
- Watch alarm

In accordance with

- EN/ISO 11674
- EN/IEC 60945
- NMEA according to EN/IEC 61162-1
- A.342 (IX), MSC 64/67 Annex 3, A.694 (17), A.813 (19) for high-speed craft: A.694 (17), A.813 (19), A.822 (19)

For details refer to EC-type examination certificate.

General Data

- Permissible ambient temperature
 - Operation: -15° to 55°C (operator unit)
 - -15° to 55°C (connection unit)
 - Storage: -25° to 70°C (operator unit)
 - -25° to 70°C (connection unit)

Type of enclosure acc. to IEC/EN 60529

- Operator unit IP 44 (option IP 56)
- Connection unit IP 22

