

# K-NAV AUTOPILOT



KONGSBERG



## SELF-ADAPTING AUTOMATED HEADING CONTROL

The K-Nav Autopilot is a self-adapting automated heading controller that provides optimal steering (under different vessel loads) in all sea and weather conditions

The K-Nav Autopilot “learns” how the vessel reacts to different rudder commands and adapts its steering commands accordingly to steer the ship as smoothly as possible in the given conditions.

The autopilot receives its orders from an operator panel. (The orders are changes of heading, turn radius or rate of turn.) It then calculates the steering commands required to execute these orders and transmits them directly to the vessel’s steering gear.

- Provides “all speed” heading control.
- Compatible with normal rudders and azimuth propulsion.
- Simple touch-screen control.

## FEATURES

- Full adaptation of steering to the vessel’s characteristics (including its current load conditions) and to current sea and weather conditions.
- Precision and Economy operating modes.
- Choice of turning modes: Rate of Turn or Turn Radius (both permitting adjustment of the turn in mid-turn).
- Three colour palettes (Day, Dusk, Night) for easy adaptation of the display to ambient light conditions.

# TECHNICAL SPECIFICATIONS

## Operator panel unit

Width overall:	292 mm
Height overall:	148 mm
Width cut-out:	281 mm
Height cut-out:	137 mm
Depth below front plate:	104.5 mm
Weight:	3.7 kg
Voltage:	2 x 24VDC
Power consumption:	1 VA
Enclosure protection:	IP22
Enclosure material:	Aluminium
Operating temperature range:	-15°C to 55°C
Recommended operating temperature range:	+10°C -+25°C
Operating humidity:	Max. 95% (non-condensing)
Storage humidity:	Less than 55%

## Controller cabinet

Width (including brackets):	434 mm
Height (including brackets):	654 mm
Depth:	210 mm
Weight:	21 kg
Voltage:	230 VAC
Power consumption:	3 VA
Enclosure protection:	IP44
Enclosure material:	Steel
Operating temperature range:	-15°C to 55°C
Recommended operating temperature range:	+10°C -+25°C
Operating humidity:	Max. 95% (non-condensing)
Storage humidity:	Less than 55%
Cable gland:	PG16 (9.5 – 13.5mm)

## Standards Applied

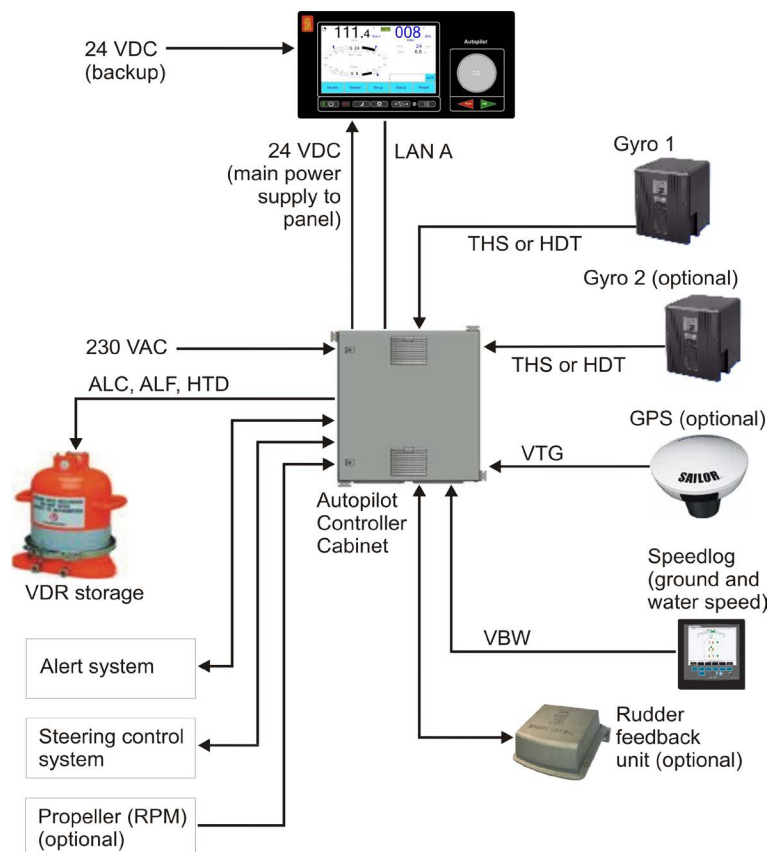
The equipment is designed to conform to the following standards:

- IMO Res.A.694(17)
- IMO Res.MSC.191(79)
- IMO Res.A.342(IX)
- IMO Res.MSC.64(67) Annex 3
- IMO Res. MSC.302(87)
- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)
- IEC 61162 Ed. 4.0 (2010)
- IEC 62288 Ed.2.0 (2014)
- ISO 11674:2006

## Type Approval

The K-Bridge Autopilot is approved in accordance with EU MED 96/98/EC annex A.1/4.16 as a heading control system.

Figure 1: System overview



Specifications subject to change without any further notice.