Sperrymarine

Technical Datasheet

Autopilot

NAVIPILOT 4500N
Control and Display Unit and Autopilot Processing Unit

Applications

- Container Ships
- General Cargo
- Tankers, LNG Carriers
- Cruise Liners and Ferries
- Working Boats
- Super Yachts
- Naval Ships

Standards

- IEC 62065
- ISO 11674

Overview

NAVIPILOT 4500N is Sperry Marine's new networked, self-adaptive heading control system that combines industry-leading performance with easier deployment and operation. It keeps your vessel more efficiently on course, reduces fuel consumption, emissions and workload on the bridge.

With a colour touchscreen, it's intuitive to use and heading control functionality is safely operated with a dial wheel and buttons to avoid unintended changes.

Features

- Standard heading control functionality
- Track Control functionality in combination with Sperry Marine VisionMaster ECDIS
- 7" colour touch display with selectable info screen
- Easy access to settings via touch

Benefits

- Self optimized operation to support vessel efficiency
- Safe operation through dial wheel for course changes and comprehensive alarm management
- Easy installation
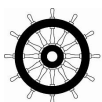
Control and Display Unit Characteristics

Technical Data	Control and Display Unit	Autopilot Processing Unit
Part number	074929-0000-000	074928-0000-000
Operating / Storage temperature	-15°C to 55°C / -25°C to 70°C	

Physical characteristics

Dimension (HxWxD)	144 x 288 x 106 mm	117 x 450 x 306 mm
Panel cut out	278 x 135 mm	
Weight	1.5 kg	2.5 kg
Protection grade	IP 24	IP 20

Power Supply

Voltage	2 x 24 VDC	24 V DC (main / backup)
Input Range	18 - 32 V	18 - 32 V
Power Consumption operation	12 W	7 W

EMC

	IEC 60945	
Minimum clearance to MF/HF transceiver units and their antennas	1.5 m	
Minimum clearance to high voltage power lines > 380 VAC of other equipment	1.5 m	

Magnetic Clearance

To standard magnetic compass	0.45 m	0.30 m
To steering magnetic compass	0.35 m	
Reduced, to standard magnetic compass	0.35 m	0.20 m
Reduced, to steering magnetic compass	0.30 m	

Inputs and Outputs

Indication and status interface I/O (dry contact)	Outputs: System Failure, Power Failure, Low Power (for track control), Override, Auto active, Off heading, Back-up Navigator Call, Mute out, BNWAS reset, HDG Difference Alert, Track control Inputs: Auto Mode, Override Mode, Mute, 180° gyro offset (double ended ferry mode)
Analogue interface Outputs	2x RudderOrderOut (+/-10 V DC or 4-20 mA)
APU Relay Outputs	System Failure 9x free configurable
Serial interfaces	IEC61162-1: 2x HDR Rx; 1x Speed Rx; 1x GNSS Rx; 1x HDG Mon. Tx; 1x VDR Tx; 1x Rudder Order Rx/Tx; 1x Nav Rx/Tx; 1xCAM Rx/Tx IEC61162-2: 1x Rx/Tx (Spare)

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