SPECIFICATIONS OF MINIMUM NAVpilot-1000

CONTROL UNIT

Display 5.7-inch color LCD, 640 x 480 dots (VGA)

Brilliance 720 cd/m²

Max. number of units 6 units (requires external 9-16 V power source and

in a network isolator for connection of 4 or more units)

Language English

PROCESSOR UNIT

Steering mode STBY, AUTO, Advanced AUTO, NAV*1 (Standard/Precision),

FU-RC*2, NFU-RC*1 *2, FU-KEY*2, NFU-KEY*2, DISENGAGED (FU/NFU: Follow-Up/Non-Follow-UP,

RC/KEY: remote/keyboard control)

 * 1: Non-IMO mode only, * 2: Available only when the RRU is installed.

Rudder gain Auto / Manual Counter rudder Auto / Manual Trim gain Auto / Manual Rate of turn 0.1-10 deg/s Rudder angle settings

Heading monitor, Watch, Off heading

Rudder control (analog)

Voltage 0 to 5 V (min.), -10 to +10 V (max.) (5 mA max.)

Current 4 to 20 mA (load resistance 500 ohm max.)

Solenoid control for rudder on/off

Isolation Galvanic/non-galvanic isolation

Connection Common negative Load range 3 A max Clutch / Bypass drive for rudder

Isolation Galvanic/non-galvanic isolation

Connection Common negative Load range 3 A max.

INTERFACE

Number of ports

4 ports, I/O, IEC61162-1 Ed.3 to 5, NMEA0183 Serial

*The NAVpilot-1000 is designed for use on100 m or smaller vessels.

Ver1.5/2.0, 4800/38400 bps

LAN 1 port, Ethernet 100Base-TX, IEEE802.3 data

link, IGMPv2 acceptable

NMFA2000 1 port, for control unit

Universal output 6 ports (dry contact), alarm/status: 100 mA max.

Universal input 4 ports (dry contact)

1 port, 12-24 V: 100 mA max. Power failure

1 port (input) Changeover switch

USB 1 port, USB 2.0, for maintenance

POWER SUPPLY

12-24 VDC (10.8-31.2 V): 4.0-2.0 A Processor unit

(control unit: 3 units)

ENVIRONMENTAL CONDITIONS

-15 °C to +55 °C (storage: -30 °C to -70 °C) Ambient temperature

93% or less at +40 °C Relative humidity Control Unit: IP22 Waterproofing Processor Unit: IP22

EQUIPMENT LIST

Standard

Control Unit FAP-10001 Processor Unit FAP-10002

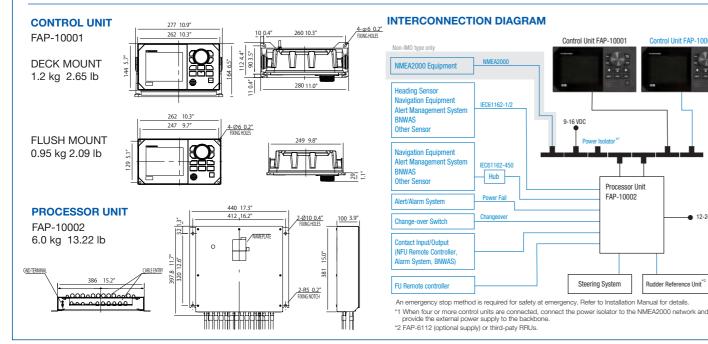
Installation Materials Spare parts

Optional Supply Control Unit

FAP-10001 Rudder Reference Unit FAP-6112 NMEA2000 Junction Box FI-5002

Cable Assembly FRU-NMEA-PFF 1/2/6 m

FRU-NMEA-PMMFF 1/2/6 m FR-FTPC-CY 10/20/30 m*LAN Cable



Beware of similar products

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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

12-24 VDC

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SND. BHD. **FURUNO KOREA CO., LTD**

FURUNO SINGAPORE

A-2405LB PT FURUNO ELECTRIC INDONESIA Catalogue No. CA000002380



Model NAVpilot -1000





www.furuno.com





The NAVpilot-1000 is a HCS (Heading Control System) type-approved Autopilot that can be connected to an analog steering system or solenoid steering system, which are often used for relatively large vessels. The NAVpilot-1000 has both IMO and Non-IMO modes depending on steering types or operation requirements and covers various types of vessels.

- ► HCS (Heading Control System) type-approved Autopilot
- **▶** Both IMO and Non-IMO Configurations Available
- ► The NAVpilot-1000 covers larger boats from commercial vessels to luxury yachts.

Model NAVpilot -1000

Steering Straight with AUTO Mode

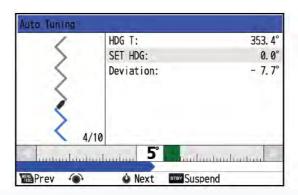
The NAVpilot-1000 takes the helm with an advanced steering algorithm that is designed for larger vessels. Specially designed features, like TURN Mode, ensure that you make smooth turns with confidence.

Work Profiles

When vessels are operated on a daily basis, sea conditions are different depending on weather or locations. In addition, preference on how-to-steer is also different depending on operators. The NAVpilot-1000 can save a total of six (6) patterns of Work Profiles. Parameters set in Auto Tuning or manual adjustment can be assigned to each profile. Simply select one of the suitable profiles for the day, location or operator.

Auto Tuning

Before navigating with the NAVpilot-1000, Auto Tuning helps to adjust control parameters. While Auto Tuning, the vessel will run in zig-zag towards the preset heading and automatically adjust rudder gain, counter rudder, and rate of turn to match with vessel characteristics.



HCS Type-Approved

NAVpilot-1000 received the Type Approval certification for the Heading Control System (HCS) and Heading control system for high speed craft. The Type Approval certifies that the product meets specific safety, quality, and reliability standards required for the international marine industry.





Easy to Read and Robust Controls

The NAVpilot-1000 comes with a 5.7" color control unit. Large, high-contrast characters are easy to read on the color LCD. The robust rotary knob and buttons are comfortable to rotate and press even in rough sea conditions.

Easily Follow Routes with NAV Mode*Non-IMO mode only

The NAVpilot-1000 helps steer vessels on a monitored or activated route with NAV mode.

► Interconnect with MFD

The NAVpilot-1000 can be connected to FURUNO's NavNet TZtouch series MFDs*1 via NMEA2000. AUTO and NAV modes can be activated from the MFD screen, as well as adjusting the set course while navigating.

*1 TZT10X/13X/16X/22X/24X: All software versions TZT9F/12F/16F/19F: Software version 3.56 or late



Photo: NavNet TZtouch3 TZT19F



