

# NavPilot 300

## FAQ



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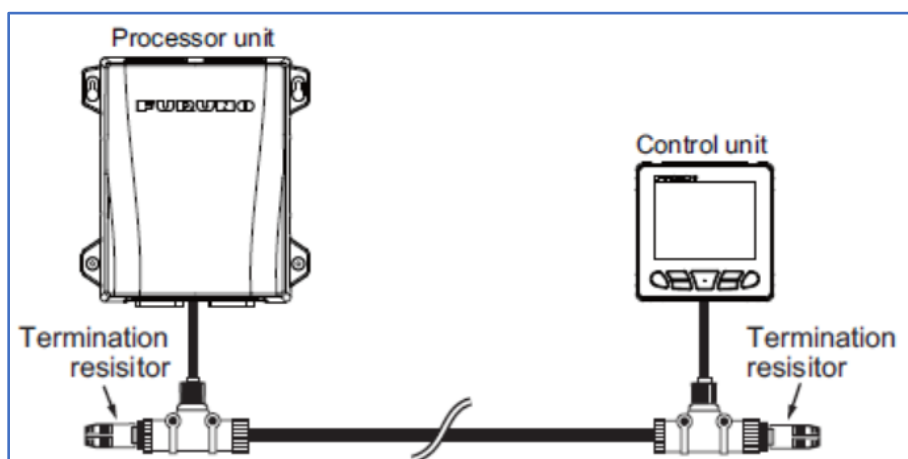
### **How is the NavPilot 300 connected to an MFD or MFD network?**

The NavPilot 300 processor unit, control head, and all MFDs are connected to the vessel's NMEA2000 bus.

### **How is the NavPilot 300 control head connected to the processor unit?**

The NavPilot 300 is a certified "NMEA2000" Autopilot. Both the control head and the processor unit connect directly to the vessel's NMEA2000 bus. This is unlike the NavPilot 711C, where the control head connects to the processor unit using a dedicated proprietary cable.

### **Sample NMEA2000 connection diagram for the NavPilot 300.**



**Does the NavPilot 300 require a control head?** Upon introduction of the NavPilot 300 a control head will be required. However, full control from a TZT2 MFD is planned with version 6.1 software. At that time, it should be possible to operate without any control head in the system. TZT2 version 6.1 software is expected to be available Fall 2018.

**Does the NavPilot 300 have a clutch circuit used for sailboats?** No.

The NavPilot 300 is primarily designed as a power boat pilot. Sailboat customers should consider the Navpilot 711C.

**Does the NavPilot 300 have a Solenoid output setting?** No. The NavPilot 300 was designed to drive a reversing pump or Drive by Wire

(DBW) installations with a Yamaha Helm Master, Seastar Optimus, Volvo Penta, Yanmar VC10 and other DBW steering systems.

**Does the NavPilot 300 have an NMEA0183 in/out port?** No. Only NMEA2000 is available. If NMEA0183 data is required, an NMEA2K2 can be installed in the system.

### **What IO ports are available on the NavPilot 300?**

- One NMEA2000
- One specialized CAN bus for Drive by Wire systems (DBW)
- Three control signal input ports for an FPS8 connection and event input (emergency standby button)
- One Bluetooth for included Gesture Controller, GC001

### **NavPilot 300 Interface**

<b>Ports</b>	NMEA2000 x1, CAN bus x1 (DBW control) Control signal x3, Bluetooth
<b>Input</b>	059392/904, 060160/416/928, 061184, 065240, 126208/464/720/992/996, 127237/250/258, 128259, 129025/026/029/283/284/285/538, 130577/818/8 21/827/841
<b>Output</b>	059392/904, 060928, 126208/464/720/993/996/998, 127237/245, 130816/ 821/822/823/827/841

**Is the NavPilot 300 NMEA2000 certified?** Yes. Both the control head and the processor unit of the NavPilot 300 are NMEA2000 certified.

**What is the Wireless Gesture Controller that comes standard with the Navpilot 300?** The NavPilot 300 is supplied standard with a revolutionary Bluetooth Low Energy (BLE) "Gesture Controller" called the GC001. This unique controller wirelessly connects to the NavPilot 300 processor and allows operators to change course using a pointing hand motion in the same way that a game controller functions. It is a very clever, useful, and safe way to control a vessel. Up to three GC001 Bluetooth Gesture Controllers can be wirelessly connected to the NavPilot 300 Processor at the same time. The GC001 has an integrated heading and status display which is great for multi-station control.

**How many control heads can be in a NavPilot 300 system?** Up to three hardwired NMEA2000 Control Heads can be connected to the Navpilot 300 system as well as up to three GC001 Wireless Gesture Controller which also feature a status display.

**Can the NavPilot 300 control head be daisy-chained, like the NavPilot 711C control head?** No. The NavPilot 300 control head has only one NMEA2000 connector. Each control head is connected directly to the NMEA2000 bus.

**What pumps are available for the NavPilot 300?** Furuno USA will offer two reversing pump product lines for the Navpilot 300 from Accu-Steer and Octopus. The Octopus pump models we offer will be 12VDC only. An Accu-Steer pump will be required if 24VDC is needed. Also, Safe Helm and Power assist require the optional FPS8 and the use of Accu-Steer HRP11/17/100 pumps only.

### **Octopus Pumps**

- [PUMPOCT06-12](#) 600CC/min 12vdc Octopus pump for 6-9 cubic inch cylinders
- [PUMPOCT10-12](#) 1000CC/min 12vdc Octopus pump for 10-15 cubic inch cylinders
- [PUMPOCT16-12](#) 1600CC/min 12vdc Octopus pump for 16-24 cubic inch cylinders

### **Accu-Steer Pumps**

- [PUMPHRP05-12](#) 0.5 Cubic Inch P/Sec Pump 12vdc
- [PUMPHRP11-12](#) Autopilot Pump, 24VDC, 1.7 Cubic Inches Per Second (For Ram Sizes of Up to 13 Cubic Inches in Volume)
- [PUMPHRP17-12](#) Autopilot Pump, 12VDC, 1.1 Cubic Inches Per Second (For Ram Sizes of 14 to 25 Cubic Inches in Volume)
- [PUMPHRP05-24](#) 0.5 Cubic Inch P/Sec Pump 24vdc
- [PUMPHRP11-24](#) Autopilot Pump, 24VDC, 1.1 Cubic Inches Per Second (For Ram Sizes of Up to 13 Cubic Inches in Volume)
- [PUMPHRP17-24](#) Autopilot Pump, 12VDC, 1.1 Cubic Inches Per Second (For Ram Sizes of 14 to 25 Cubic Inches in Volume)

**What is the waterproof rating of the NavPilot 300?** Display is IP56. Processor is IP55. Gesture Controller, GC001 is IP67.

**Does the NavPilot 300 have a night mode?** The NavPilot 300 control head has a day and night mode.

**What steering modes are available for the NavPilot 300?** 5 different steering modes are available: Auto, Advanced Auto (compensation for tide and wind), FishHunter, Sabiki, and Nav.

**Does the NavPilot 300 require a Rudder Reference Unit (RRU) for outboard installations?** No. The NavPilot 300 incorporates Furuno's exclusive Fantum feedback mode. However, an RRU can be fitted to provide rudder position information.

**Is an (RRU) required for FishHunter mode in an outboard installation?** No. Unlike the NavPilot 700/711C, the NavPilot 300 does not require an RRU to use all of the turns offered in the FishHunter mode.

**Is an inboard RRU supplied with the NavPilot 300** No, it is an option. Available inboard RRU is the [FAP6112](#). This is the same RRU that is used with the NavPilot 700/711C and it is an analog RRU. Direct NMEA2000 RRU PGN support is not supported at this time.

**How does the NavPilot 300 connect to Electronic vessel control systems (EVCS) Drive by Wire (DBW) systems?** The NavPilot 300 can be directly connected to the CAN bus steering systems of Seastar Optimus and Yanmar VC10 without the use of a gateway. Yamaha Helm Master and Volvo Penta systems require an optional gateway. Yamaha gateway part # [000-027-162-00](#). Volvo Penta gateway part # [000-022-971-00](#).

**How can the NavPilot 300 control head be mounted?** The NavPilot 300 control head can be either flush or desktop mounted. The desktop mount requires an optional bracket mounting kit, part # [000-033-337](#).

**Can you connect a NavPilot 711C control head to the NavPilot 300 processor unit?** No. The NavPilot 711C control head (FAP7011C) is not compatible with the NavPilot 300 processor unit.

**Can I connect a Follow-Up or Non-Follow-Up jog lever to the NavPilot 300?** No. The NavPilot 300 does not support these remotes. The NavPilot 300 does support up to three control heads and three remote Gesture Controllers, which can perform the functions of a jog lever. If you

need traditional Follow-up or Non-Follow-up remotes, the NavPilot 700/711C is recommended.

## Typical NavPilot 300 connections

