

Marex 3D – Feel the Precision



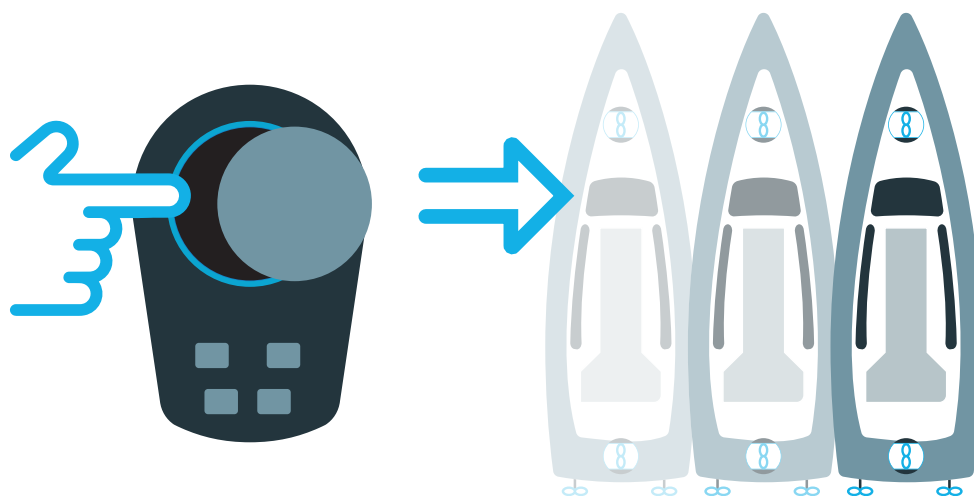
AVENTICS™ Marex 3D

Intuitive control even in the tightest of spaces – with the Marex 3D joystick system, the ship reacts precisely to your maneuvering.



Marex 3D – A joystick like no other

Harbor docking and undocking is now easier and safer than ever before. The 3-axis joystick of this intuitive maneuvering aid allows for the simultaneous operation of engines and thrusters. Steer your ship in any direction with precision and ease in the 3D mode, simply by pushing or turning the joystick. A smart control coordinates the drives and holds the heading by compensating for the yaw caused by wind or current. If necessary, the heading can be changed easily by rotating the top part of the joystick.



It is extremely simple: Just move the joystick and the control will do the rest.

At the push of a button, Marex 3D maintains your boat's direction, position, or even both – features that are highly useful when fishing or waiting at water gates.

Alternatively, engines and thrusters can be controlled separately in the thruster mode: The joystick operates only the thrusters, while the engines are controlled via a control head.



Docking maneuvers with comfort and ease

Where comfort meets precision

Advantages:

- Outstanding precision thanks to ship-specific adjustment and a calculation that takes the yaw angle into account.
- Simplest possible maneuvering without having to handle the wheel and control levers at the same time.
- Intuitive control: the ship follows the movement of the joystick with maximum precision.
- Cost and space savings, because additional control elements for transverse thrusters are no longer necessary.
- Safety due to classification: Marex 3D was developed and certified according to IACS guidelines.
- Less work involved with installation and commissioning thanks to a complete solution from a single source.

Marex 3D with DPS

Learn more about the Marex 3D dynamic positioning features:

**Heading hold:**

Enjoy the view of the coastline or sunset. Marex 3D maintains the heading of your boat while allowing it to drift.

**3D hold:**

No need to steer manually while waiting at water gates or narrow port entries. Marex 3D holds the heading and position of the ship with perfect accuracy.

**Virtual anchor:**

Use the virtual anchor mode to hold the ship within a defined circle, while it finds its most comfortable heading. The control actuates the engines in an intelligent way to minimize fuel consumption and noise.

Marex 3D is designed for use on yachts, speedboats, and pleasure crafts of any size, with the option to integrate up to 6 joystick stations. It can be installed with conventional shaft line, fixed-pitch propeller applications in combination with ON/OFF and proportional thrusters. The following combinations are possible:

	Engines	Thrusters		Marex 3D
		Bow	Stern	
	2	x	-	✓
	2	x	x	✓
	1	x	x	✓

Class-compliant, ergonomic design for indoor and outdoor control panels

Joystick:

The joystick reflects the approved design features of the Marex control heads. Its ergonomic shape is perfect for fingertip operation and provides effortless maneuverability with confidence and ease. The integrated design reduces the time and effort required for installation to a minimum. A leaner version is available for applications without hold modes.



Separate control of linear and rotational movements

Backlit key pad with status indicators

Adjustable dimming function

Full-feature joystick, including DP functionality

Integrated power supply via CAN bus cable



Basic joystick version for manual docking

Marex 3D Controller:

The Marex 3D Controller is the heart of the Marex 3D system. It processes the commands from the joystick and performs the necessary vector calculations for controlling the main propulsions and thrusters. It also provides the interfaces to all standard thrusters on the market.



Accessories for Marex 3D with DPS:

The use of the DP modes requires a heading and GPS sensor. It includes an electronic compass and provides data on the ship's position. A DP controller is available for operating the hold position and virtual anchoring modes.



Features and benefits

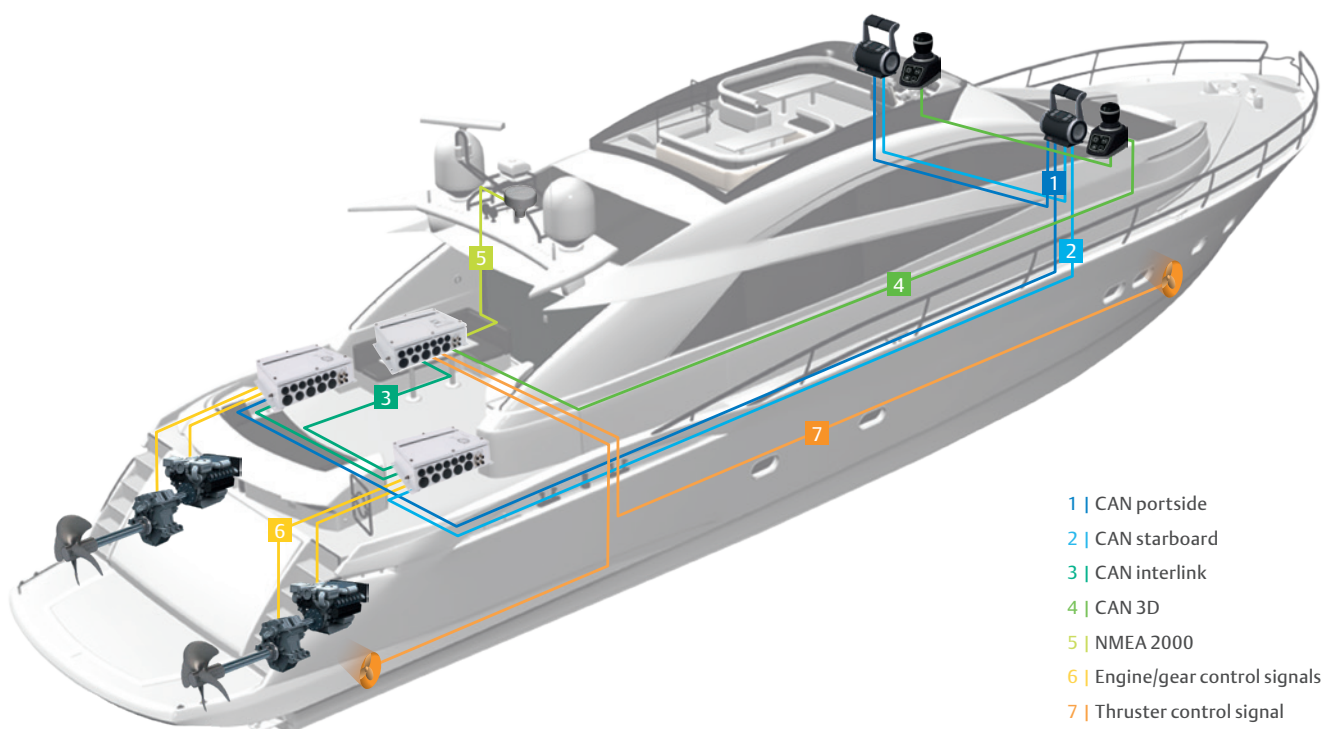
Flexibility

In combination with Marex OS or ECS, Marex 3D is a flexible solution for ships of all sizes, with the option to integrate up to 6 joystick stations. A perfect solution for retrofitting to existing Marex control systems.



Simple integration and retrofits

- A simple joystick solution for all sizes of ships
- For ships with conventional shaft line and fixed pitch propellers, diesel engines including trolling as well as hybrid and electric drives.
- Interfaces to all customary thrusters. ON/OFF and proportional, electric (DC/AC) or hydraulic, digital/analog/CAN (NMEA2000)
- Simple and safe addition on ships with an installed AVENTICS™ remote control (Marex OS and Marex ECS).
- Retrofits of Marex OS systems are possible, economically and efficiently.
- Turnkey solution

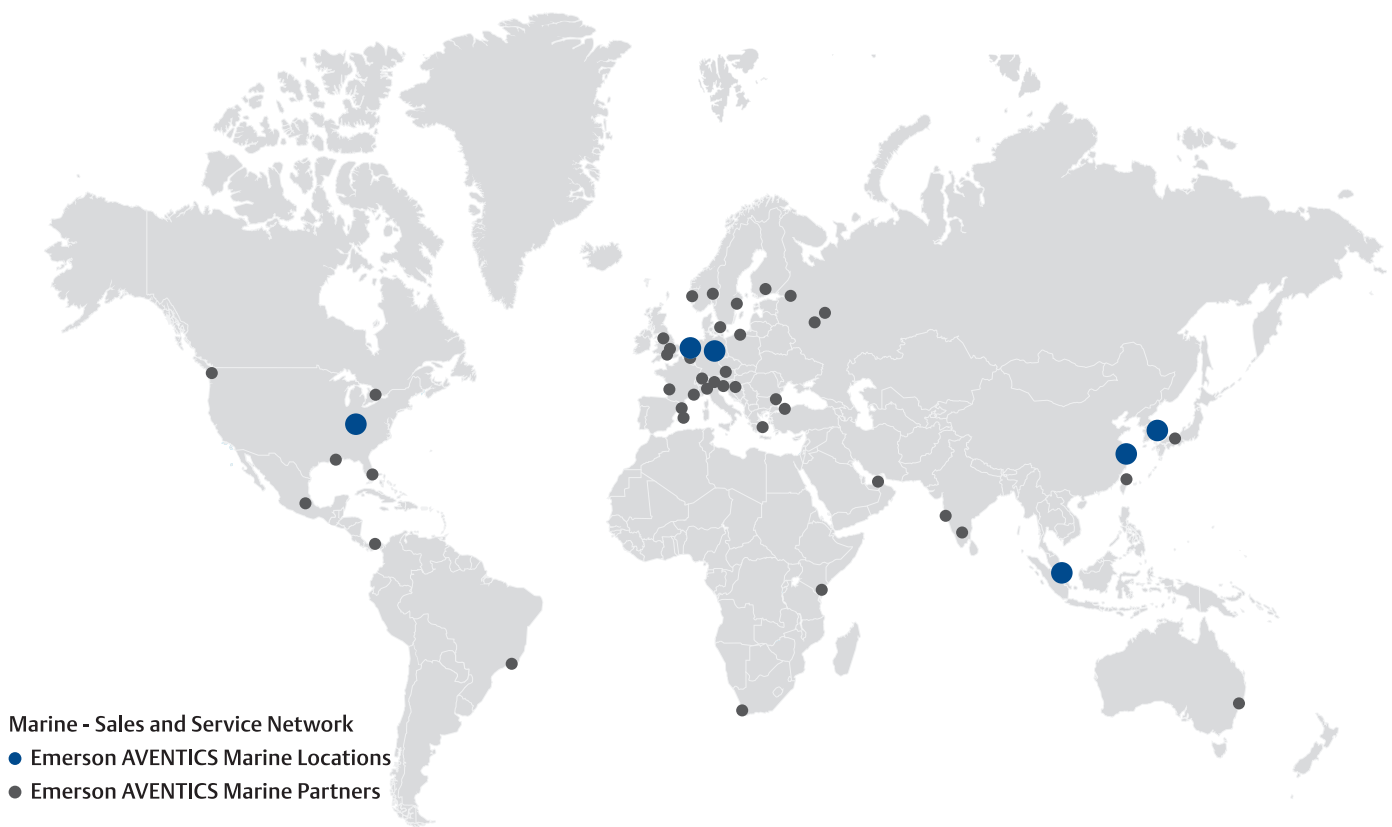


- 1 | CAN portside
- 2 | CAN starboard
- 3 | CAN interlink
- 4 | CAN 3D
- 5 | NMEA 2000
- 6 | Engine/gear control signals
- 7 | Thruster control signal

Service – Always by your side

Supported by our global partners, we provide a sales service network in the hotspots of commercial shipping, pleasure boating, and beyond:

- All over Europe
- In the Mediterranean region
- In the Americas
- In the United Arab Emirates, Southeast Asia, Australia, and China



**Enjoy the comfort of one-hand docking
and discover new possibilities with
automatic position holding**



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