Control your ship professionally and increase propulsion system efficiency

AVENTICS™ MAREX OS Ship Remote Control System

Class-approved, customizable and reliable controls for commercial and recreational shipping

EMERSON™

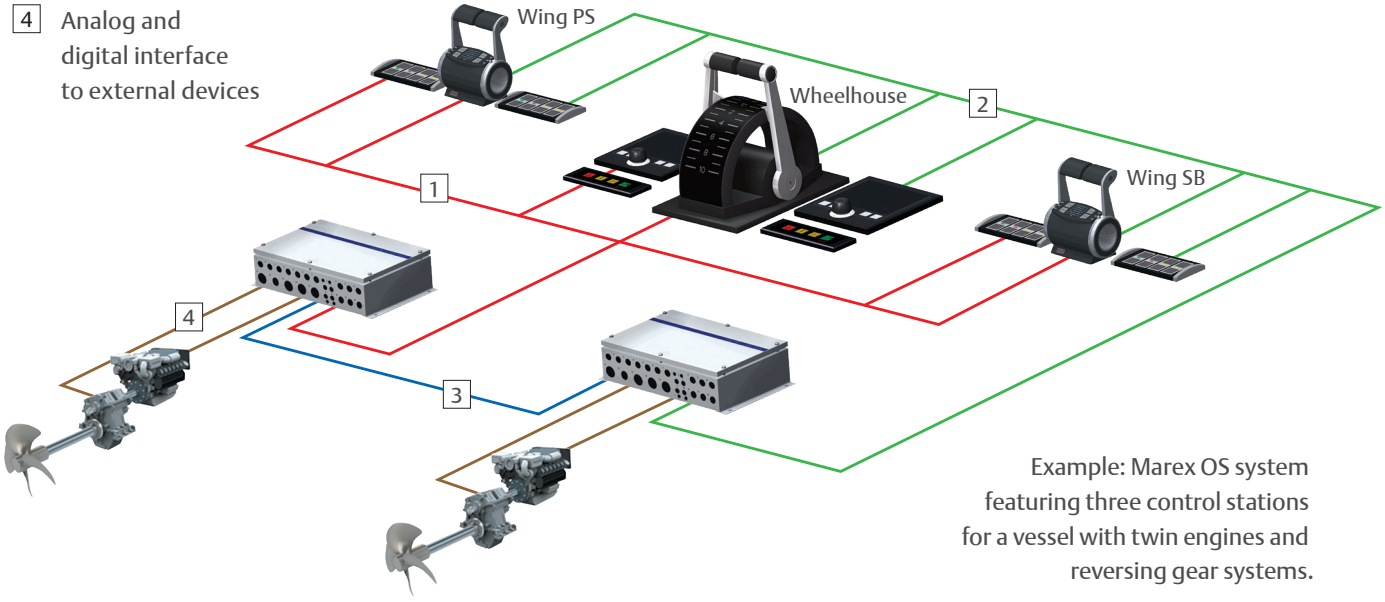
AVENTICS MAREX OS ship remote control systems help to ensure your design ideas run free and every journey is safe

AVENTICS control systems can be found operating many types of ships around the world. Work vessels with classification, passenger liners, coastal cargo ships and yachts rely on AVENTICS systems to provide reliable and precise control. Regardless of the type of reversing gear being deployed – including PTO and PTI used in hybrid applications – the AVENTICS Marex OS, is the ideal control system for your vessel.

Key features

- Suitable for shaft-line applications with fixed pitch propellers
- Modular system design with many options
- Extensive choice of function blocks
- Separate networks for each drive train
- Up to 6 control stations
- Different control head designs including follow-up option
- Outdoor-suitable operating devices
- Class approved components
- Joystick and dynamic positioning option

1 Port side CAN bus
2 Starboard side CAN bus
3 CAN bus interlink
4 Analog and digital interface to external devices



Example: Marex OS system featuring three control stations for a vessel with twin engines and reversing gear systems.

AVENTICS Marex OS – Integrated Functions

- Engine control, speed curves and engine stall protection
- Gear operation, reversing maneuver curves
- Control of PTO and PTI, Trolling and Slip & Grip
- Wide range of hybrid propulsion solutions
- Shaft brake control
- Internal software PLC to add special functions
- Standard interface for DP system, Autopilot and VDR

AVENTICS Marex OS – Benefits

Design

- The design of our control heads follows ergonomic rules. Our customers value their look and feel and reliability. Years of experience and feedback from the field have gone into the development of Marex OS. A clear and intuitive control concept assures a safe operation of the vessel. Extensive indication and alert functions keep the operator informed about the status, anytime.
- Marex OS is manufactured to the highest quality standards, extensively tested and well proven in marine applications. It meets all requirements for a safe operation of the ship and was approved by major classification societies.

We design and manufacture in cooperation with

Flexibility

- Marex OS features a modular system architecture for standard and customized applications. It offers an extensive range of components which can be combined to your perfect control solution. Smart adjustment options contribute to a longer life of engines and transmissions and efficient and environmental-friendly operation of the vessel.
- Marex OS provides an open interface which can be connected to all common marine engines and transmissions. Diesel/electric applications have been realized. Interfaces to DP systems, autopilot or VDR can be provided.

Service

- Our consultants support you from the concept to the start-up and after. A service network ensures lifecycle services where and when needed over the full operation life of a vessel. Staff trainings can be organized online, in our factory or locally.

AVENTICS Marex OS – System Components

Control heads

- Illuminated scale, electric shaft (follow-up), various designs, integrated keypad, triple-engine version available

Operating unit with color display

- Freely configurable, four illuminated push buttons, digital 4-axis jog dial, readable in the sunlight, ergonomic design, size 5.7"

Operating and indication modules

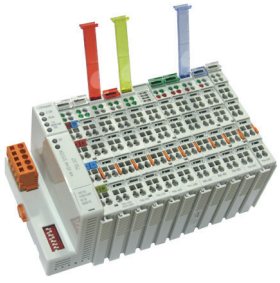
- Operating keys and status indication

Marine propulsion controllers

- Stand alone or modular for cabinet installation, software PLC function, extensive diagnostic features, error log with real-time clock, integrated keypad and display

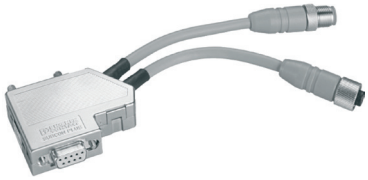
AVENTICS Marex OS – System Components

Extension modules



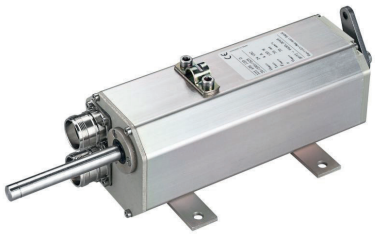
- I/O extensions, VDR interface, NMEA and J1939 interface, backup control

Accessories



- Prefabricated connecting cables, including power supply and terminal blocks

Actuators and valves



- Electric or pneumatic actuators for the mechanical actuation of gear shifting, rpm or trolling

Service tool

- Computer-based parameter transfer and optimization

Simplify your control system design process and ensure precise and reliable control of any vessel

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